


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER RW 13B4-18C				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT RED WASH				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME RED WASH				
6. NAME OF OPERATOR QEP ENERGY COMPANY						7. OPERATOR PHONE 303 308-3068				
8. ADDRESS OF OPERATOR 11002 East 17500 South, Vernal, Ut, 84078						9. OPERATOR E-MAIL debbie.stanberry@qepres.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU02148			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	911 FSL 800 FWL		SWSW	18	7.0 S	24.0 E	S			
Top of Uppermost Producing Zone	911 FSL 800 FWL		SWSW	18	7.0 S	24.0 E	S			
At Total Depth	911 FSL 800 FWL		SWSW	18	7.0 S	24.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 800			23. NUMBER OF ACRES IN DRILLING UNIT 40				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1000			26. PROPOSED DEPTH MD: 10535 TVD: 10535				
27. ELEVATION - GROUND LEVEL 5677			28. BOND NUMBER ESB000024			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE A-36125/ 49-2153				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	9.625	0 - 3556	40.0	N-80 LT&C	0.0	Halliburton Light , Type Unknown	460	3.12	11.0
							Halliburton Premium , Type Unknown	190	1.47	13.5
Prod	7.875	4.5	0 - 10535	11.6	HCP-110 LT&C	10.5	Halliburton Light , Type Unknown	550	3.18	11.0
							Halliburton Premium , Type Unknown	510	1.65	13.5
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Valyn Davis			TITLE Regulatory Affairs Analyst			PHONE 435 781-4369				
SIGNATURE			DATE 12/14/2011			EMAIL Valyn.Davis@qepres.com				
API NUMBER ASSIGNED 43047522430000			APPROVAL  Permit Manager							

RECEIVED: January 12, 2012

QEP Energy Company
RW 13B4-18C
Summarized Drilling Procedure

1. Construct location per plat.
2. MIRU air drilling rig.
3. Pre-set conductor.
4. Nipple up diverter system.
5. Drill 12-1/4" hole to 3,556' with air/mist.
6. RIH with 9-5/8" 40# N-80 casing and cement same per program.
7. RDMO air drilling rig.
8. MIRU conventional drilling rig.
9. NU and test 5M BOPE.
10. Drill 7-7/8" hole from 10,535' using conventional mud systems.
11. Log well. Triple or Quad-Combo (GR, NEU/DEN, IND, RES, SON)
12. RIH with 4-1/2" 11.6# HCP-110 casing and cement same per program.
13. Pressure test casing.
14. ND BOP's and NU remainder of wellhead. Set BPV.
15. RDMO.

CONFIDENTIAL

Updated MPG 12-6-2011
Not to scale

RW 13B4-18C
911' FSL & 800' FWL Sec 18 T7S R24E S.L.B.&M.
Uintah County, Utah
KB 5,691'
GL 5,677'

14" Conductor at 60'

Cemented to surface

Top of Production Lead Cement at 3,000'
Top of Surface Tail Cement at 3,000'

12-1/4" Open Hole

9-5/8" 40# N-80 @ 3,556'

7-7/8" Open Hole

Top of Production Tail Cement @ 8,085'

4 1/2" 11.6# HCP-110

10,535'

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QEP ENERGY COMPANY
 RW 13B4-18C
 Uintah County, Utah
 Section 18-T7S-R24E

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated top of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	2,807'
Mahogany	3,506'
Wasatch	5,895'
Mesaverde	8,085'
Sego	10,435'
TD	10,535'

2. Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones

The estimated depths at which the top of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	Green River	2,807'
Gas	Wasatch	5,895'
Gas	Mesaverde	8,085'
Gas	Sego	10,435'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125 (which was filed on May 7, 1964)

QEP ENERGY COMPANY
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 Uintah County, Utah
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or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment

- A. An 11" 5000 psi double ram with blind rams and pipe rams, annular preventer and drilling spool or BOP with 2 side outlets.
- B. All BOP connections subject to pressure shall be flanged, welded or clamped.
- C. Kill line (2" min), 2 choke line valves (3" min), choke line (3" min), 2 kill line valves (2" min) and a check valve, 2 chokes with one remotely controlled from rig floor and a pressure gauge on choke manifold.
- D. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.
- E. IBOP or float sub available.
- F. Fill up line must be installed above the uppermost preventer.
- G. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 5M system and individual components shall be operable as designed.

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.	Expected MW(ppg)
17 1/2"	14"	Sfc	60'	Steel	Conductor	None	Used	N/A
12-1/4"	9-5/8"	Sfc	3,556'	40#	N-80	LTC	New	Air
7 7/8"	4-1/2"	Sfc	10,535'	11.6#	HCP-110	LTC	New	10.5

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Casing Strengths:				Collapse	Burst	Tensile (min)
9-5/8"	40#	N-80	LTC	3,090 psi	5,750 psi	916,000 lb.
4 1/2"	11.6#	HCP-110	LTC	8,830 psi	10,710 psi	279,000 lb.

Casing Design Factors

*The casing prescribed above meets or exceeds the below listed design factors.

Burst: 1.2

Collapse: 1.2

Tension: 1.6

Maximum anticipated mud weight: 10.5 ppg

Maximum anticipated surface treating pressure: 7,200 psi

5. Cementing Program

9-5/8" Surface Casing:

Lead Slurry: Surface (TOC) – 3,000'. 460 sks (1409 ft³) Halliburton Extendacem, 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 11.0 ppg, 3.12 ft³/sk, 50% XS in open hole only.

Tail Slurry: 3,000' – 3,556'. 190 sx (279 ft³) Halliburton Econocem, 0.2% HR-5 Retarder, 1.0 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 13.5 ppg, 1.47 ft³/sk, 50% XS in open hole.

4-1/2" Production Casing*:

Lead Slurry: 3,000' (TOC) – 8,085'. 550 sks (1,728 ft³) Halliburton Extendacem, 1 pps Granulite 1/4, 0.125 pps Poly-E-Flake. Slurry Weight 11.0 lb/gal, 3.18 ft³/sk, 50% excess over gauge in open hole only.

Tail Slurry: 8,085' – 10,535'. 510 sks (840 ft³), Halliburton Expandacem, 0.3% Super CBL (Expander), 0.6% HR-800 (Retarder), 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake (LCM). Slurry Weight 13.5 lb/gal, 1.65 ft³/sk, 50% excess over gauge hole.

*Final cement volumes to be calculated from caliper log, if run.

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6. **Auxiliary Equipment**

- A. Kelly Cock – yes
- B. Float at the bit – Yes
- C. Monitoring equipment on the mud system – PVT/Flow Show
- D. Full opening safety valve on the rig floor – Yes
- E. Rotating Head – Yes
- F. Request for Variance:

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 50' into the Mahogany Bench formation and high pressures are not expected.

1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
2. **Blooi line discharge 100 feet from wellbore and securely anchored** – the blooi line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
3. **Automatic igniter or continuous pilot light on blooi line** – a diffuser will be used rather than an automatic pilot/igniter. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
4. **Compressors located in the opposite direction from the blooi line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the blooi line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
5. **Well Kill Fluid** – A suitable amount of water and weighting agents will be available in the reserve pit during air drilling operations to kill the well, if necessary. No overpressured zones are expected in the area.
6. **Deflector on the end of the blooi line** – QEP will mount a deflector unit at the end of the blooi line for the purpose of changing the direction and velocity of the air and cuttings flow into the reserve pit. Changing the

QEP ENERGY COMPANY
RW 13B4-18C
Uintah County, Utah
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velocity and direction of the cuttings and air will preserve the pit liner. In the event the deflector washes out due to erosion caused by the sand blasting effect of the cuttings, there will be no problem because the deflector is mounted on the very end of the blooie. A washed out deflector will be easily replaced.

7. **Flare Pit** – there will be no need of a flare pit during the surface hole air drilling operation because the blooie line is routed directly to the reserve pit. When the big rig arrives for the main drilling after setting surface casing, a flare box will be installed and all flare lines will be routed to the flare box.

- G. Drilling below the 9-5/8" casing will be done with water based mud. Maximum anticipated mud weight is 10.5 ppg.
- H. No minimum quantity of weight material will be required to be kept on location.
- I. Gas detector will be used from intermediate casing depth to TD.

7. **Testing, logging and coring program**

- A. Cores – none.
- B. DST – none anticipated
- C. Logging – Mud logging – Intermediate Casing to TD
OH Logs: GR-SP-Induction, Neutron Density.
- D. Formation and Completion Interval:
– Stimulation will be designed for the particular area of interest as encountered.

8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. Maximum anticipated bottom hole pressure equals approximately 5,752 psi. Maximum anticipated bottom hole temperature is 205° F.

H2S has not been encountered in other wells drilled to similar depths in the general area.

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Uintah County, Utah
Section 18-T7S-R24E

5M BOP STACK

Rotating Head

Spacer Spool

5M Annular

5M Double Ram

2" Kill Line

GL

5M x 9 5/8" 5M Casing Head

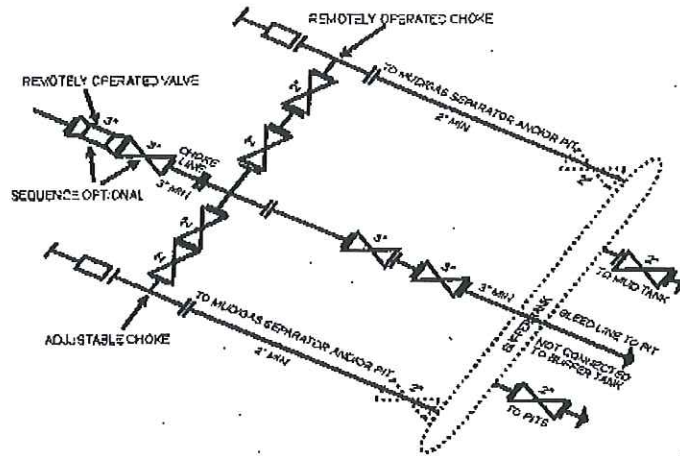
Flowline

3" Choke Line

2" 5M 2" 5M 2" 5M
Check Manual Manual

3" 5M 3" 5M
Manual HCB

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RW 13B4-18C
Uintah County, Utah
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5M CHOKER MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKERS MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manufacturing the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]

T7S, R24E, S.L.B.&M.

QEP ENERGY COMPANY

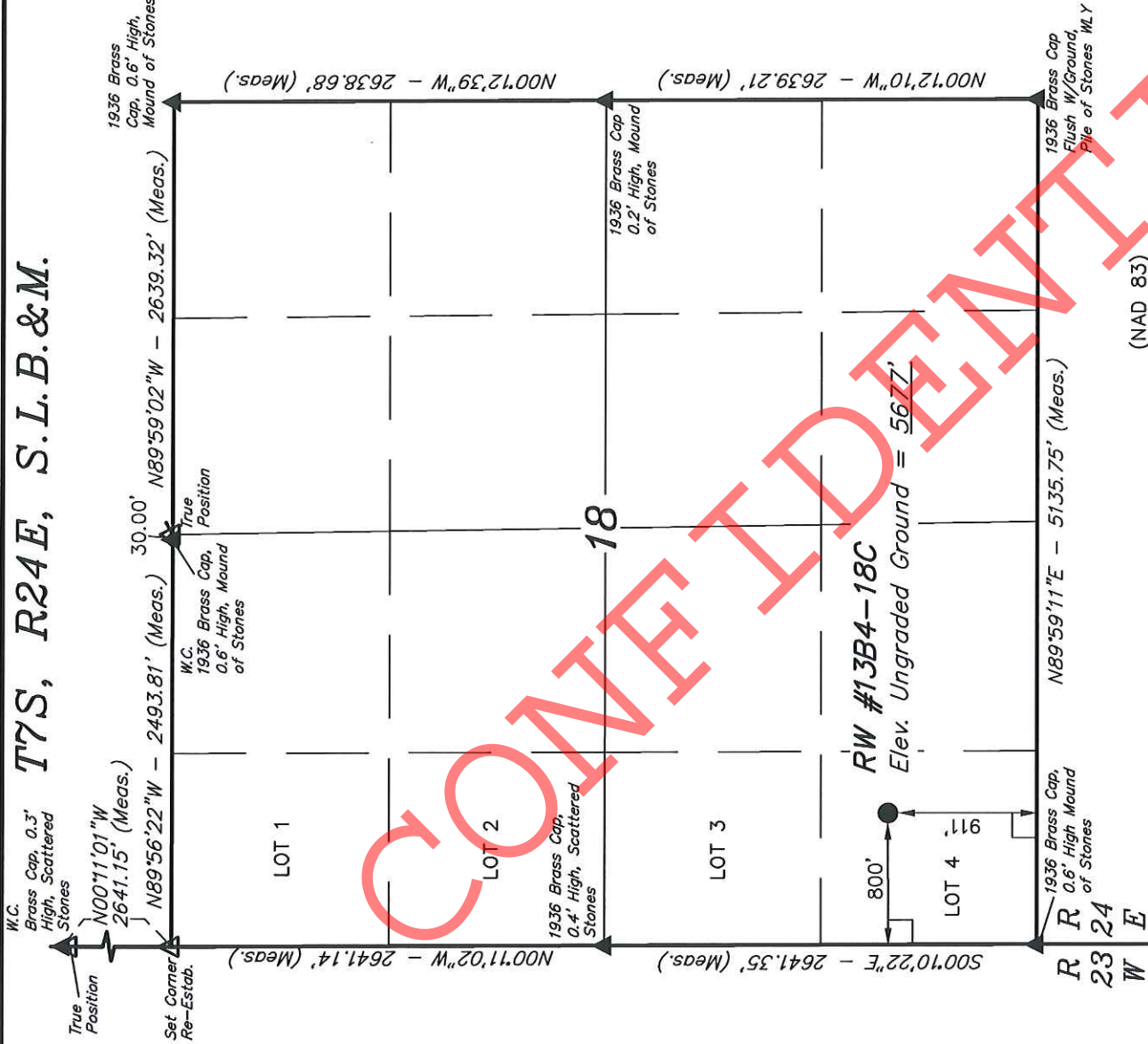
Well location, RW #13B4-18C, located as shown in Lot 4 of Section 18, T7S, R24E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PART WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
STATE OF UTAH
KAY
REGISTRATION NO. 161319
EXPIRATION DATE 01-08-11

REV.: 11-02-11 J.I.

UINTAH ENGINEERING & LAND SURVEYING	
85 SOUTH 200 EAST - VERNAL, UTAH 84078	
(435) 789-1017	
SCALE 1" = 1000'	DATE SURVEYED: 03-14-11
PARTY A.F. J.C. K.O.	DATE DRAWN: 03-16-11
WEATHER COLD	REFERENCES G.L.O. PLAT
FILE QEP ENERGY COMPANY	

LEGEND.	
—	= 90° SYMBOL
●	= PROPOSED WELL HEAD.
▲	= SECTION CORNERS LOCATED.
LATITUDE = 40°12'17.23" (40.204786) LONGITUDE = 109°15'47.31" (109.263142) (NAD 83)	
LATITUDE = 40°12'17.36" (40.204822) LONGITUDE = 109°15'44.86" (109.262461) (NAD 27)	

QEP ENERGY COMPANY

RW #13B4-18C

LOCATED IN UINTAH COUNTY, UTAH

SECTION 18, T7S, R24E, S.L.B.&M.

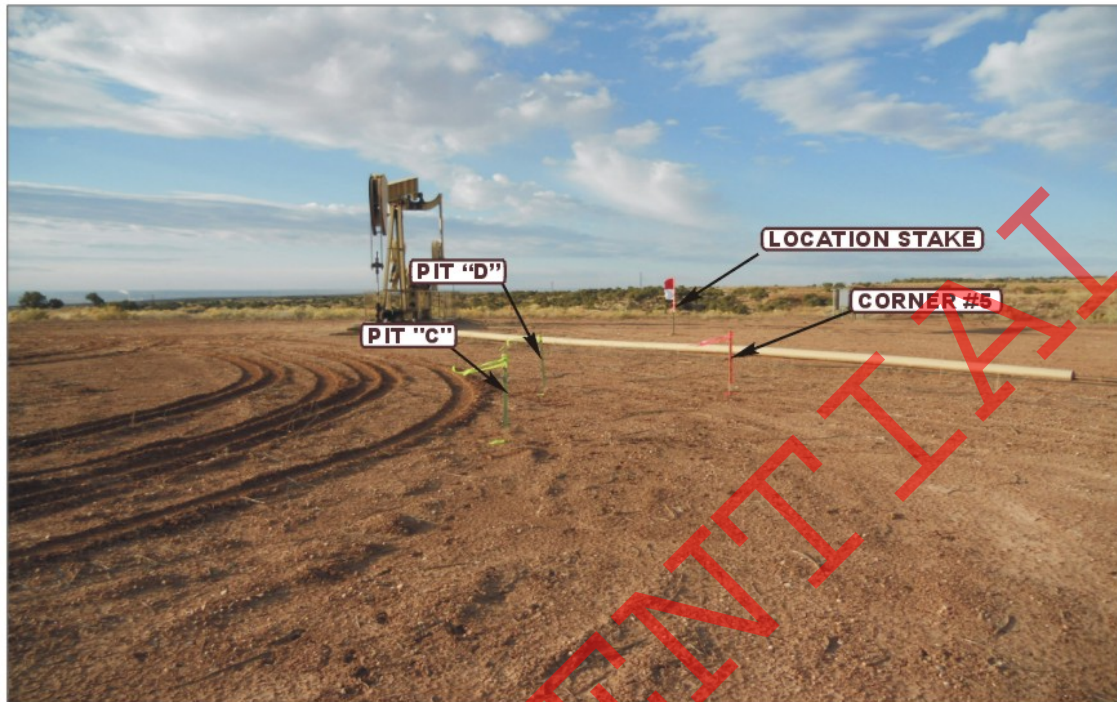


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHWESTERLY



UELS

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

03 **22** **11**
MONTH DAY YEAR

PHOTO

TAKEN BY: A.F.

DRAWN BY: J.L.G.

REV: B.D.H. 11-7-11

T7S, R24E, S.L.B.&M.

QEP ENERGY COMPANY

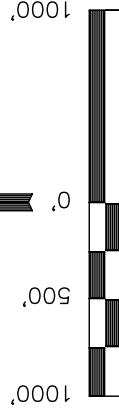
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ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REV: 11-02-11 J.L.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 03-14-11	DATE DRAWN: 03-16-11
PARTY A.F. J.C. K.O.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE	QEP ENERGY COMPANY

1936 Brass Cap, 0.6' High, Mound of Stones
N00°12'39"W - 2638.68' (Meas.)

N00°12'10"W - 2639.21' (Meas.)

18

30.00'

N89°59'02"W - 2639.32' (Meas.)

W.C. 1936 Brass Cap, 0.6' High, Mound of Stones

True Position

Set Corner Re-Estab.

N00°11'01"W - 2641.15' (Meas.)

N89°56'22"W - 2493.81' (Meas.)

W.C. 1936 Brass Cap, 0.4' High, Scattered Stones

LOT 1

LOT 2

LOT 3

LOT 4

800'

91'

1936 Brass Cap, 0.6' High, Mound of Stones

W.C. 1936 Brass Cap, 0.2' High, Mound of Stones

1936 Brass Cap, 0.6' High, Mound of Stones

Flush W/Ground, Pile of Stones WLY

N89°59'11"E - 5135.75' (Meas.)

500°10'22"E - 2641.35' (Meas.)

N00°10'02"W - 2641.14' (Meas.)

LOT 1

LOT 2

LOT 3

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1936 Brass Cap, 0.6' High, Mound of Stones

Flush W/Ground, Pile of Stones WLY

N89°59'11"E - 5135.75' (Meas.)

500°10'22"E - 2641.35' (Meas.)

N00°10'02"W - 2641.14' (Meas.)

LOT 1

LOT 2

LOT 3

LOT 4

800'

91'

1936 Brass Cap, 0.6' High, Mound of Stones

W.C. 1936 Brass Cap, 0.2' High, Mound of Stones

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500°10'22"E - 2641.35' (Meas.)

N00°10'02"W - 2641.14' (Meas.)

LOT 1

LOT 2

LOT 3

LOT 4

800'

91'

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500°10'22"E - 2641.35' (Meas.)

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LOT 1

LOT 2

LOT 3

LOT 4

800'

91'

1936 Brass Cap, 0.6' High, Mound of Stones

W.C. 1936 Brass Cap, 0.2' High, Mound of Stones

1936 Brass Cap, 0.6' High, Mound of

QEP ENERGY COMPANY

LOCATION LAYOUT FOR

RW #13B4-18C
SECTION 18, T7S, R24E, S.L.B.&M.
911' FSL 800' FWL

FIGURE #1

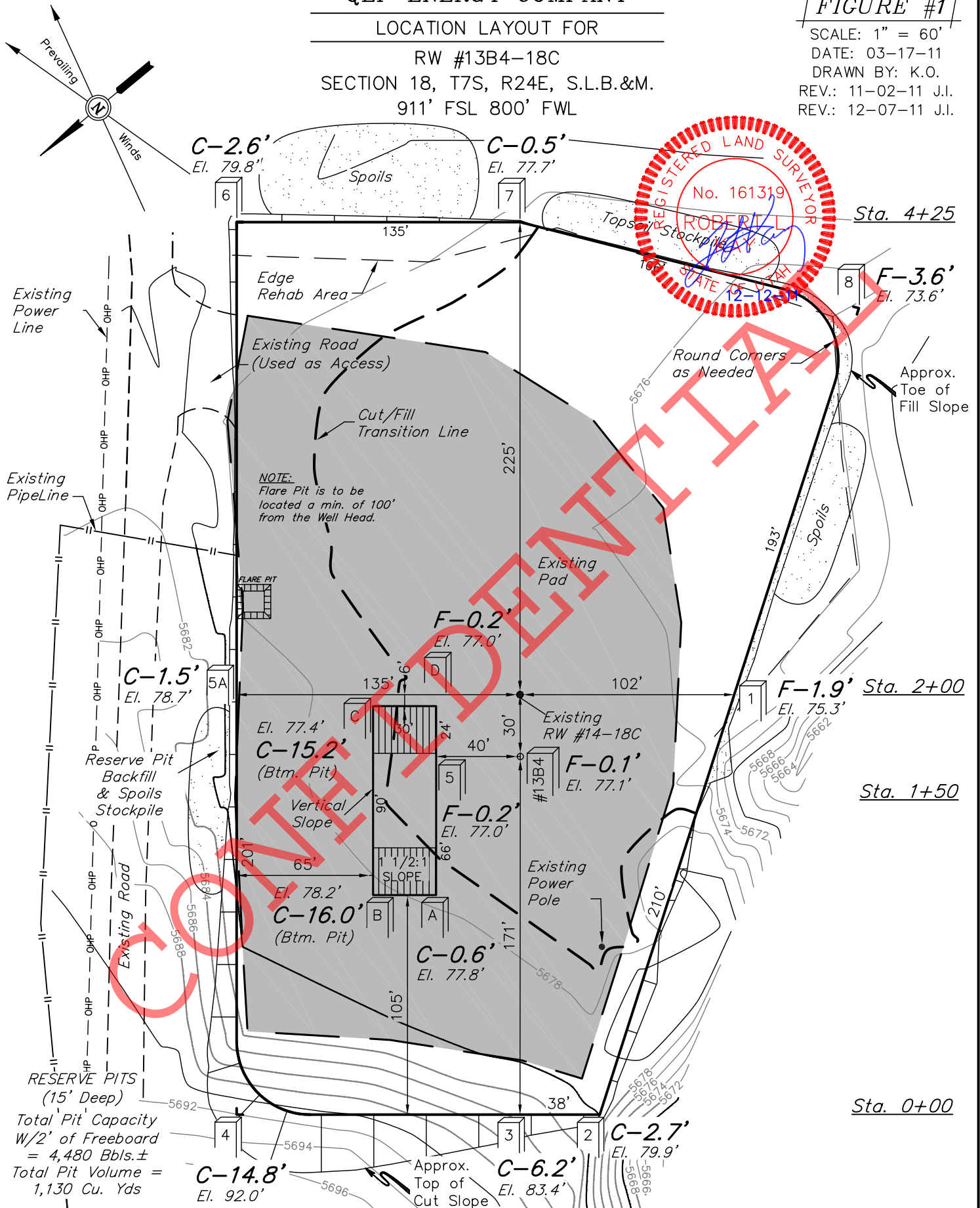
SCALE: 1" = 60'

DATE: 03-17-11

DRAWN BY: K.O.

REV.: 11-02-11 J.I.

REV.: 12-07-11 J.I.



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RECEIVED: December 14, 2011

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TYPICAL CROSS SECTIONS FOR

RW #13B4-18C

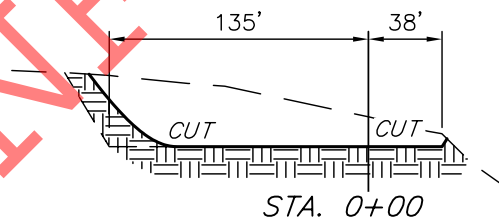
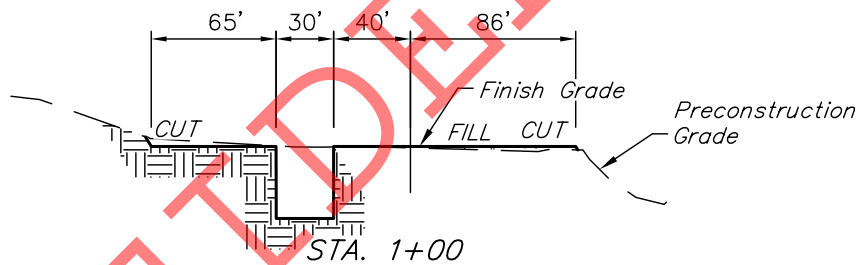
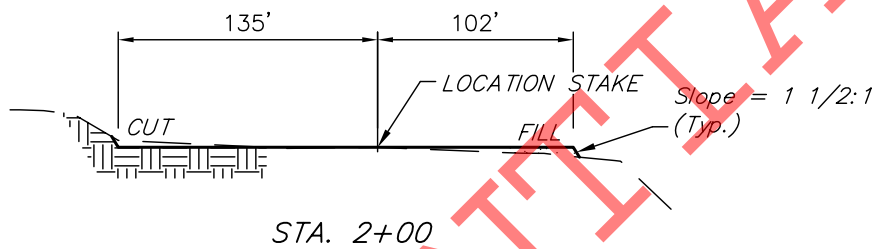
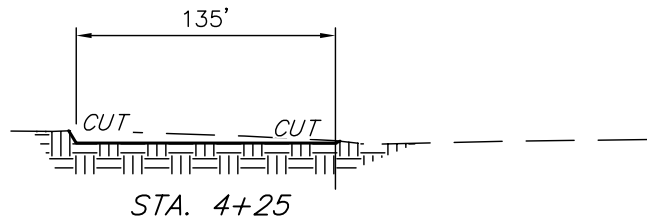
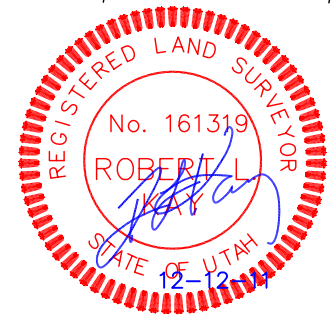
SECTION 18, T7S, R24E, S.L.B.&M.

911' FSL 800' FWL

FIGURE #2

X-Section
Scale
1" = 100'

DATE: 03-17-11
DRAWN BY: K.O.
REV.: 11-02-11 J.I.
REV.: 12-07-11 J.I.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES
EXISTING DISTURBANCE
 WITHIN PROPOSED WELL SITE = ± 1.476 ACRES
REMAINING PROPOSED
 WELL SITE DISTURBANCE = ± 1.148 ACRES
PIPELINE DISTURBANCE = ± 0.899 ACRES
TOTAL = ± 3.523 ACRES

* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 2,010 Cu. Yds.
 Remaining Location = 4,930 Cu. Yds.
 TOTAL CUT = 6,940 CU.YDS.
 FILL = 2,010 CU.YDS.

EXCESS MATERIAL = 4,930 Cu. Yds.
 Topsoil & Pit Backfill = 2,580 Cu. Yds.
 (1/2 Pit Vol.)
 EXCESS UNBALANCE = 2,350 Cu. Yds.
 (After Interim Rehabilitation)

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QEP ENERGY COMPANY

TYPICAL RIG LAYOUT FOR

RW #13B4-18C
SECTION 18, T7S, R24E, S.L.B.&M.
911' FSL 800' FWL

FIGURE #3

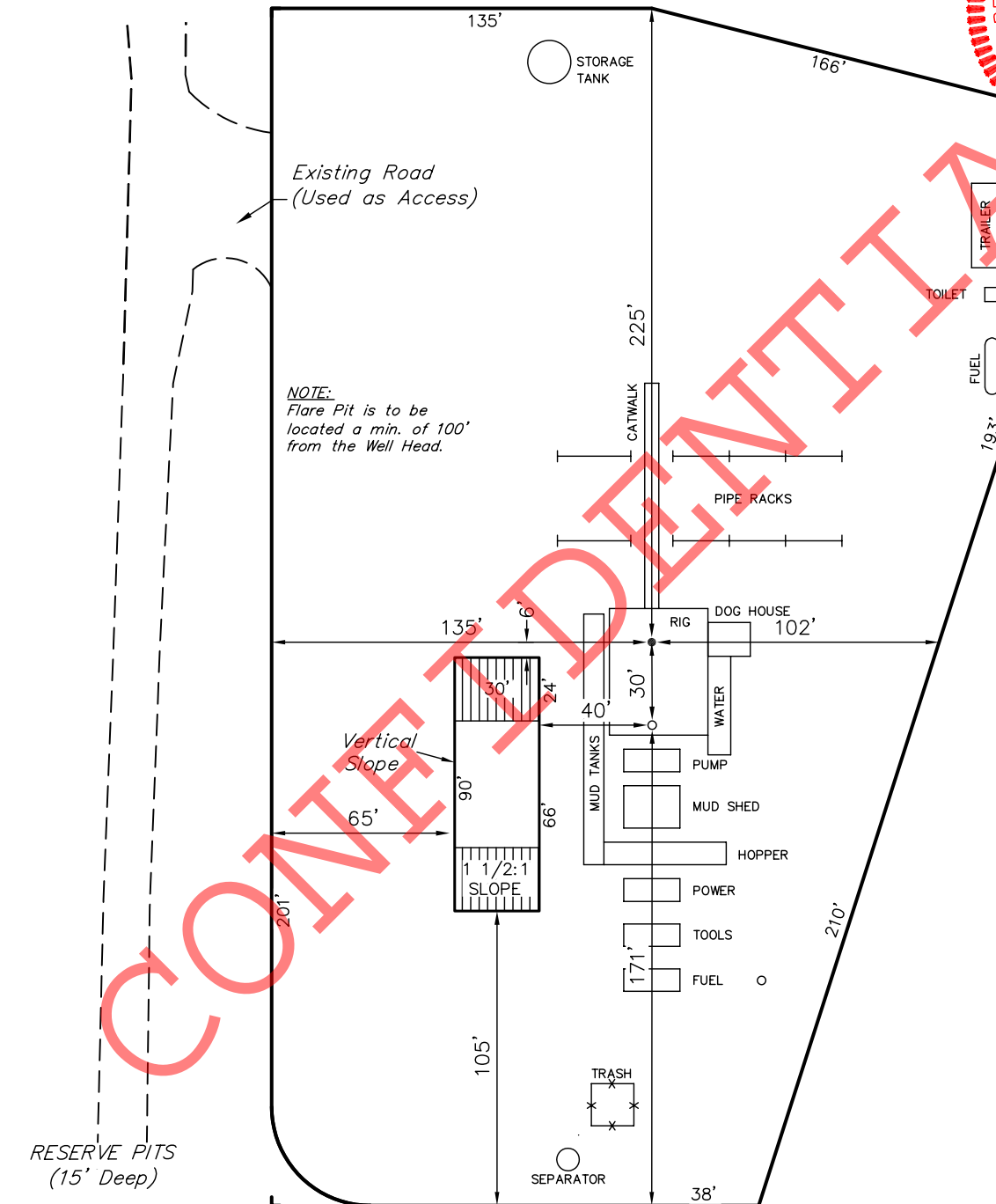
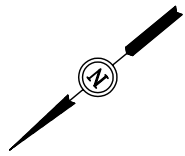
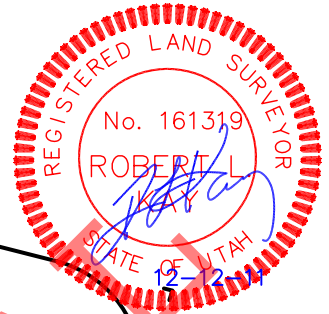
SCALE: 1" = 60'

DATE: 03-17-11

DRAWN BY: K.O.

REV.: 11-02-11

REV.: 12-07-11 J.I.



RESERVE PITS
(15' Deep)

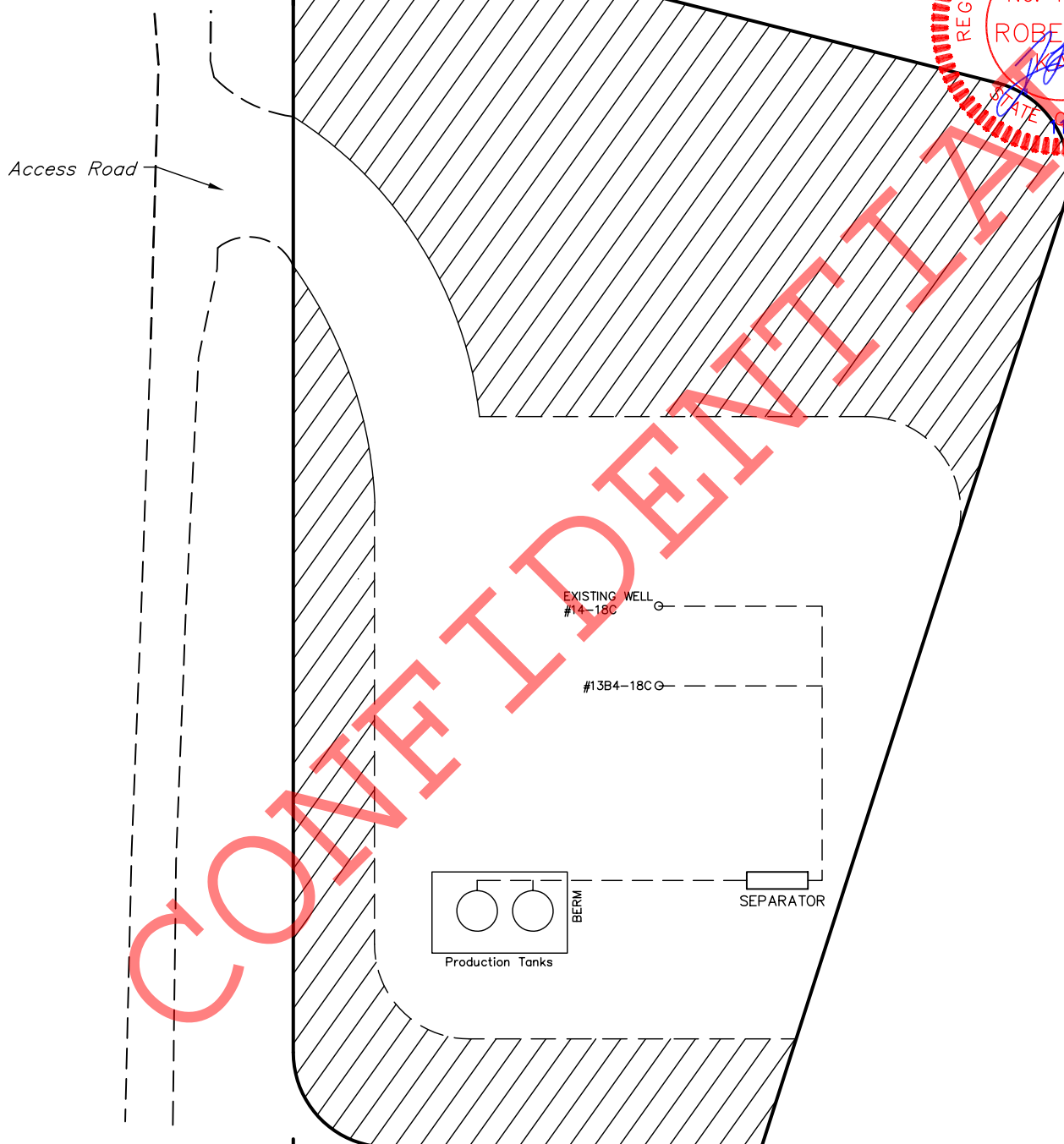
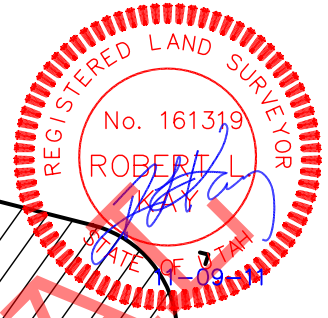
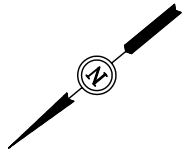
Total Pit Capacity
W/2' of Freeboard
= 4,480 Bbls.±
Total Pit Volume =
1,130 Cu. Yds

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RECEIVED: December 14, 2011

QEP ENERGY COMPANY
PRODUCTION FACILITY LAYOUT FOR
 RW #13B4-18C
 SECTION 18, T7S, R24E, S.L.B.&M.
 911' FSL 800' FWL

FIGURE #4
 SCALE: 1" = 60'
 DATE: 03-17-11
 DRAWN BY: K.O.
 REV.: 11-02-11 J.I.



 RECLAIMED AREA

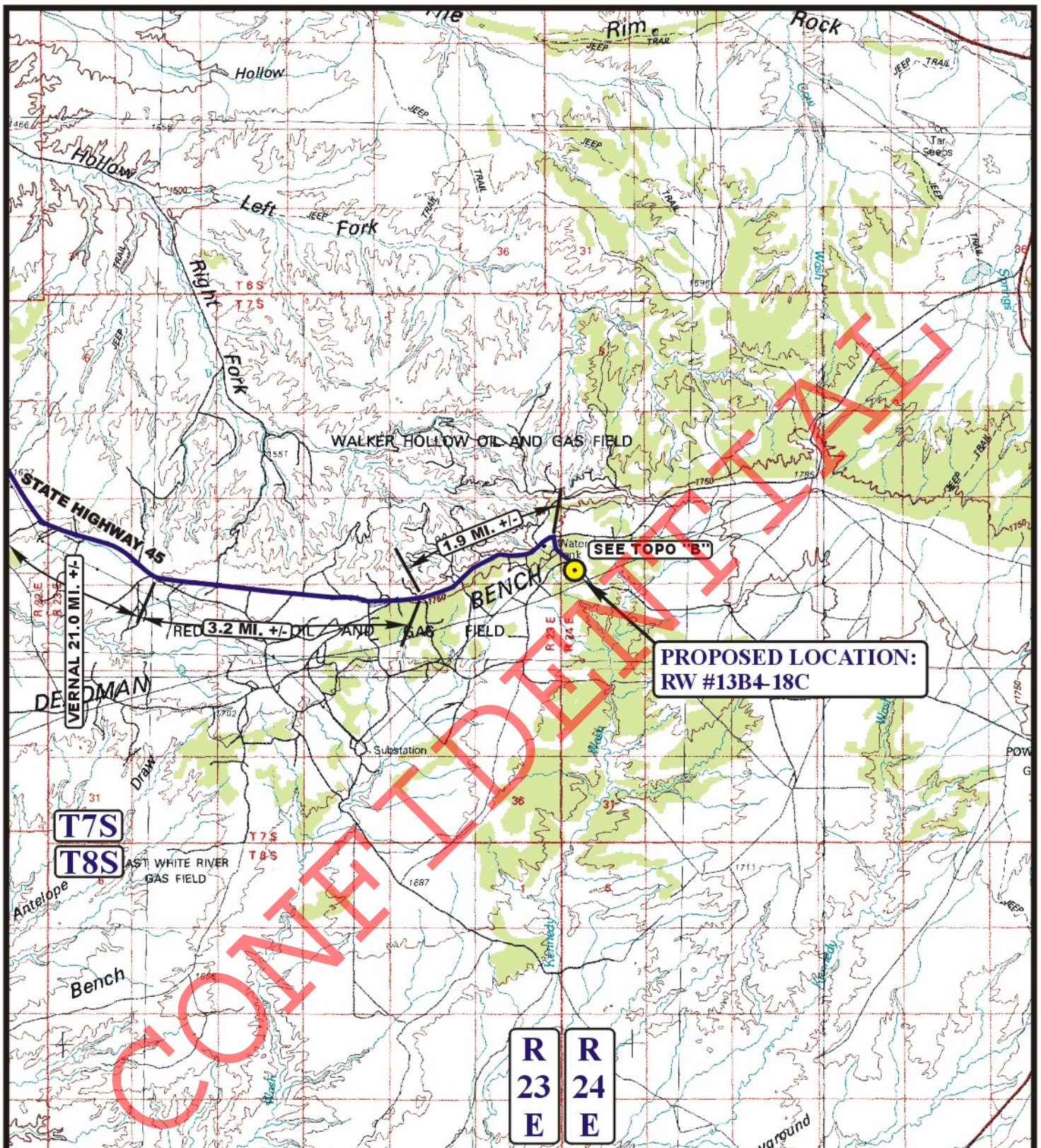
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RECEIVED: December 14, 2011

QEP ENERGY COMPANY
RW #13B4-18C
SECTION 18, T7S, R24E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 3.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THE SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 30' TO THE PROPOSED LOCATION

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 26.6 MILES.



LEGEND:

PROPOSED LOCATION



QEP ENERGY COMPANY

RW #13B4-18C
SECTION 18, T7S, R24E, S.L.B.&M.
911' FSL 800' FWL



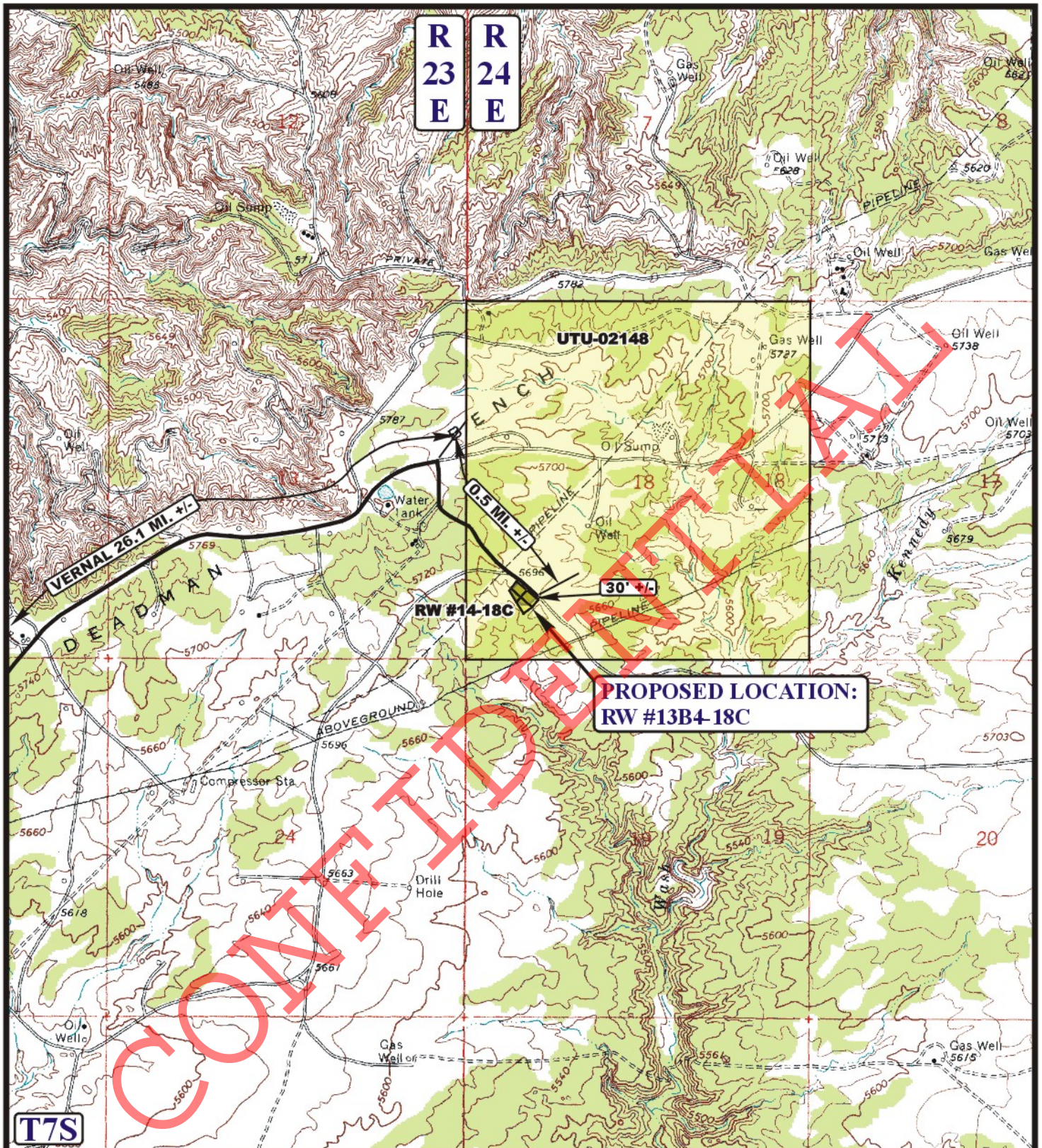
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

03 22 11
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.L.G. REV: B.D.H. 11-7-11





LEGEND:

— EXISTING ROAD
 - - - - - PROPOSED ACCESS ROAD

QEP ENERGY COMPANY

RW #13B4-18C
SECTION 18, T7S, R24E, S.L.B.&M.
911' FSL 800' FWL



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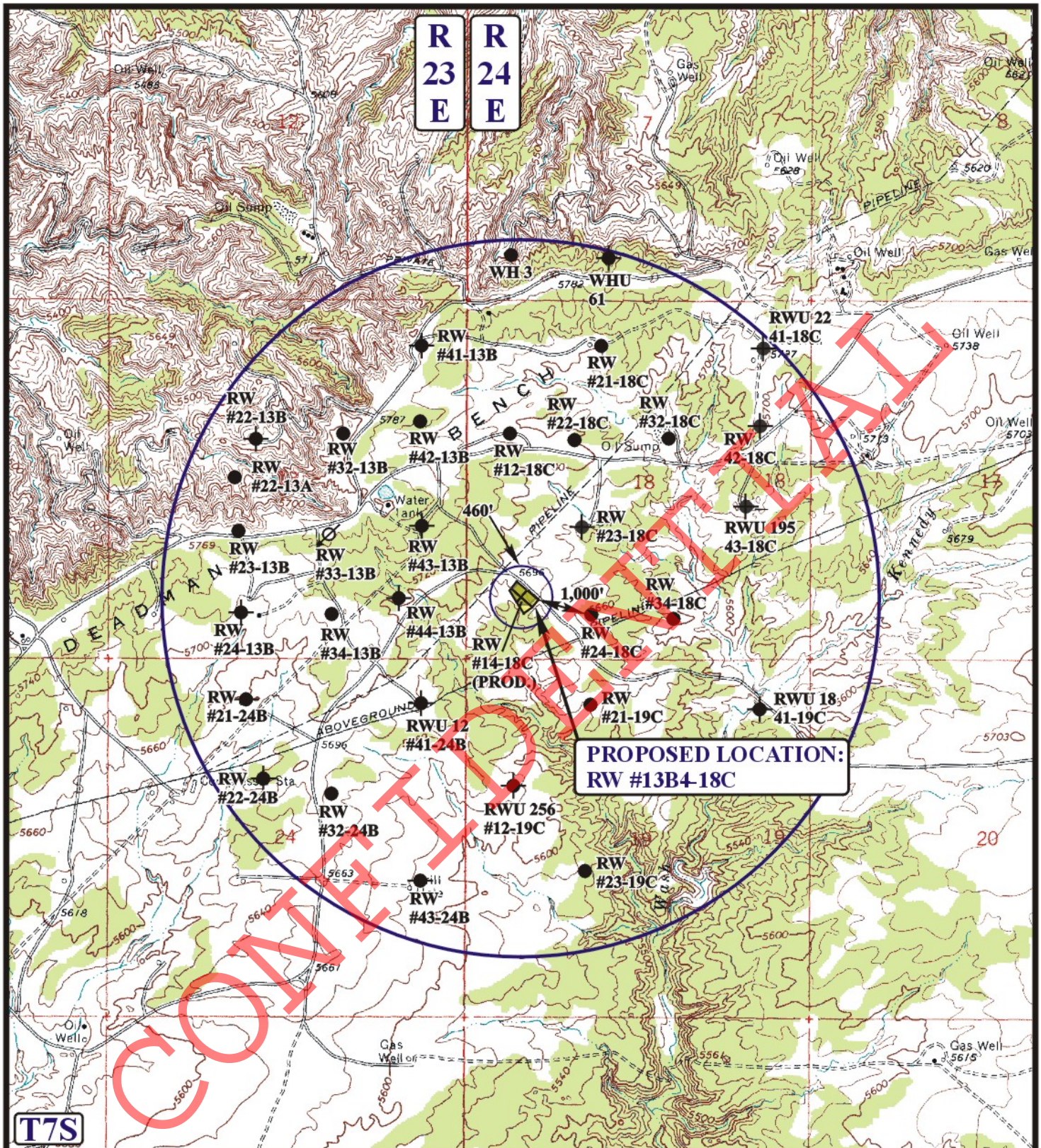


TOPOGRAPHIC
MAP

03 22 11
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REV: B.D.H. 11-7-11

B
TOPO



LEGEND:

- | | |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS | ○ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |



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QEP ENERGY COMPANY

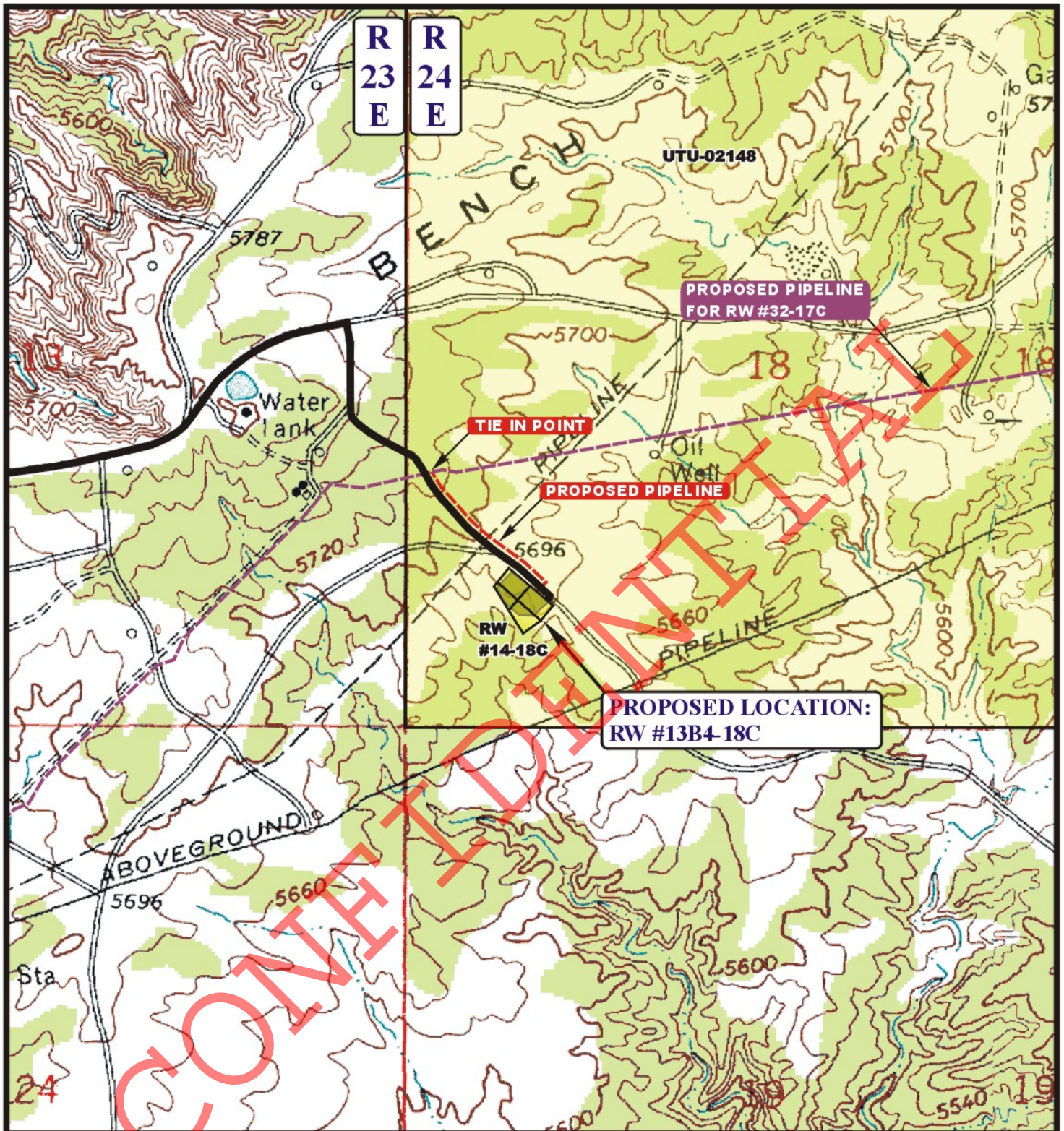
RW #13B4-18C
SECTION 18, T7S, R24E, S.L.B.&M.
911' FSL 800' FWL

TOPOGRAPHIC
MAP

03 **22** **11**
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REV: B.D.H. 11-7-11





APPROXIMATE TOTAL PIPELINE DISTANCE = 1,306' +/-

LEGEND:

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS



QEP ENERGY COMPANY

RW #13B4-18C
SECTION 18, T7S, R24E, S.L.B.&M.
911' FSL 800' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

03 22 11
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REV: B.D.H. 11-7-11

D
TOPO

QEP ENERGY COMPANY
REFERENCE MAP: AREA OF VEGETATION
RW #13B4-18C
LOCATED IN UINTAH COUNTY, UTAH
SECTION 18, T7S, R24E, S.L.B.&M.



NOTE:

BEGINNING OF REFERENCE AREA

UTM NORTHING: 14605861.221

UTM EASTING: 2125744.853

LATITUDE: 40.204244

LONGITUDE: -109.261856

END OF REFERENCE AREA

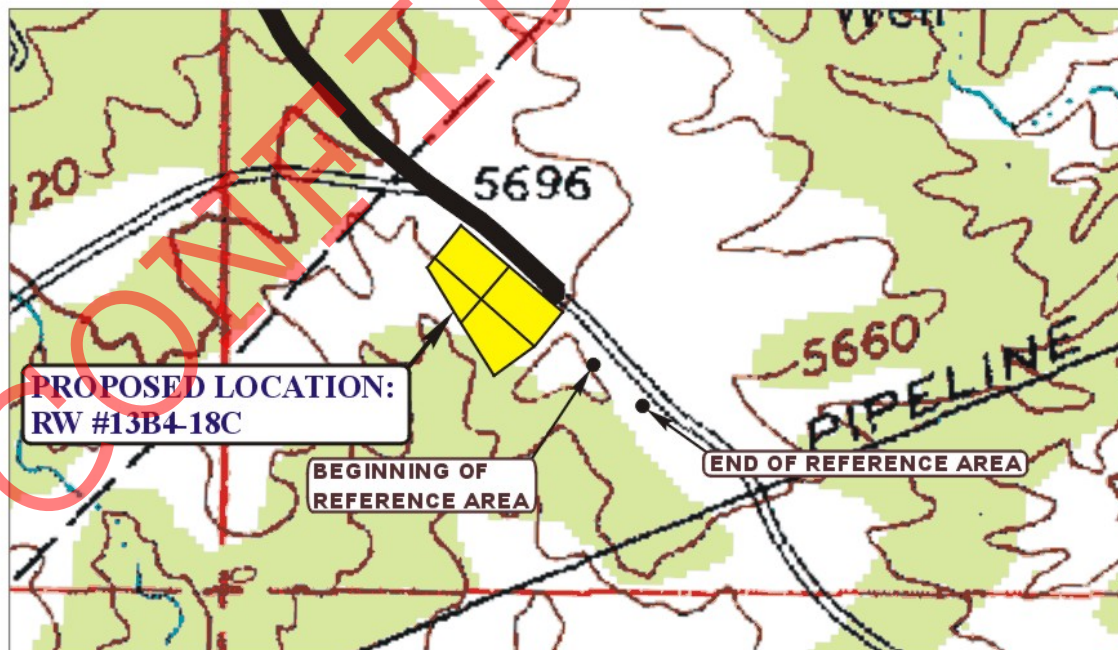
UTM NORTHING: 14605735.785

UTM EASTING: 2125902.502

LATITUDE: 40.203892

LONGITUDE: -109.261300

PHOTO: VIEW FROM BEGINNING OF REFERENCE AREA



U E L S Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

SCALE: 1" = 300'

05 09 11
MONTH DAY YEAR

TAKEN BY: A.F.

DRAWN BY: Z.L.

REV: B.D.H. 11-7-11

REF.

Additional Operator Remarks

QEP Energy Company proposes to drill a vertical gas well to a depth of 10,535' to test the Mesa Verde Formation. This well is being twinned on well location RW 14-18C. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Onshore Order No. 1.

Please refer to QEP Energy Company Greater Deadman Bench
EIS UT-080-2003-0369V Record of Decision dated March 31, 2008.

Please be advised that QEP Energy Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is QEP Energy Company via surety as consent as provided for the 43 CFR 3104.2.

CONFIDENTIAL

**QEP ENERGY COMPANY
RW 13B4-18C
911' FSL 800' FWL
LOT 4, SECTION 18, T7S, R24E
UINTAH COUNTY, UTAH
LEASE # UTU-02148**

**ONSHORE ORDER NO. 1
MULTI – POINT SURFACE USE & OPERATIONS PLAN**

THIS WELL IS BEING TWINNED ON WELL LOCATION RW 14-18C.

An onsite inspection was conducted for the RW 13B4-18C on May 4, 2011. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Kevin Sadlier	Bureau of Land Management
Aaron Roe	Bureau of Land Management
Holly Villa	Bureau of Land Management
Daniel Emmett	Bureau of Land Management
Jan Nelson	QEP Energy Company
Stephanie Tomkinson	QEP Energy Company
Ryan Angus	QEP Energy Company
Valyn Davis	QEP Energy Company
Eric Wickersham	QEP Energy Company
Andy Floyd	Uintah Engineering & Land Surveying

1. Existing Roads:

The proposed well site is approximately 27 miles South of Vernal, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

All existing roads will be maintained and kept in good repair during all phases of operation.

2. Planned Access Roads:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Refer to Topo Map B for the location of the proposed access road.

No new access road is proposed. The access to be used is the access to the existing RW 14-18C location. Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Should conditions warrant, rock, gravel or culverts will be installed as needed.

3. Location of Existing Wells Within a 1 – Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

The following guidelines will apply if the well is productive.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). These dikes will be constructed of compacted impervious subsoil; hold 110% of the capacity of the largest tank; and, be independent of the back cut. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded to meet SPCC requirements with approval by the BLM/VFO AO. The specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed.

All loading lines will be placed inside the berm surrounding the tank batteries.

All permanent (on site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a color approved by the State.

It was determined on the onsite by the BLM VFO AO that the facilities will be painted Covert Green.

Refer to Topo Map D for the location of the proposed pipeline.

All existing equipment will be moved off location before any construction begins.

The proposed surface pipeline will be constructed utilizing existing disturbed areas to minimize surface disturbance. No construction activities will be allowed outside of the proposed pipeline.

Prior to construction, the Permittee will develop a plan of installation to minimize surface disturbance. Pipe will be strung along the pipeline route with either a flatbed trailer and rubber tired backhoe or a tracked typed side boom. Where surface conditions do not allow the pipe to be strung using conventional methods, the Permittee will utilize pull sections to run the fabricated pipe through the area from central staging areas along the pipeline route.

Upon completion of stringing activities the Permittee will fabricate the pipeline on wooden skids adjacent to the centerline of the pipeline route using truck mounted welding machines. All fabricated piping will be lowered off of the wooden skids and

placed along the centerline. Upon completion of all activities, the wooden skids will be removed from the pipeline route using a flatbed truck or flatbed truck and trailer.

When the surface terrain prohibits the Permittee from safely installing the pipeline along the pipeline route, grading of the route will be required. Prior to installing the pipeline in these areas a plan will be developed to safely install the pipeline while minimizing grading activities and surface disturbances. Additionally, erosion control Best Management Practices will be installed as needed prior to the start of any grading activities. Surface grading will be limited to what is needed to safely install the pipeline. Track type bulldozers and track type backhoes will be utilized for grading activities.

Upon completion of the pipeline installation, the pipeline route will be restored to the pre-disturbance surface contours.

The proposed pipeline will be a surface 10" or smaller, 1,306' in length, containing .90 acres.

Road Crossings

Fusion Bond or concrete coated pipe will be used for all road crossings to alleviate future corrosion.

All pipe and fittings used for road crossings will be prefabricated within the proposed pipeline route to minimize the duration of open pipe trench across the roadway. Pipe used for road crossings will be isolated on each end with a flange set and insulation kit and cathodically protected with a magnesium type anode. Adequately sized equipment will be used for minor and major road crossings. Depth of cover for minor roads will be >4' and the depth of cover for major roads will be >6'.

Prior to lowering the pipe in the trench, the Permittee will "Jeep" the pipe to locate and repair any Holidays in the pipe coating. Upon lowering the pipe in the trench, 6" of bedding and a minimum of 6" of shading will be installed to protect the pipe using either native soils <1" in diameter or imported sand. Pipe trenches that extend across gravel roads will be backfilled with native soils to within 8" of the driving surface and capped with 3/4" road base. Pipe trenches that extend across asphalt paved roads will be backfilled to 4" of the driving surface with 3/4" road base and capped asphalt material.

5. Location and Type of Water Supply:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Water for drilling purposes would be obtained from Wonsits Valley Water Right # A 36125 (which was filed on May 7, 1964) or Red Wash Water Right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System.

6. Source of Construction Materials:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

7. Methods of Handling Waste Materials:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 6 months after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

It will be determined at the on-site inspection if a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner, a minimum of 20 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

No trash or scrap will be disposed of in the pit.

Reserve pit leaks are considered an undesirable event and will be orally reported to the AO.

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days.

After the 90 day period, the produced water will be contained in tanks on location and then hauled by truck to one of the following pre-approved disposal sites:

Red Wash Disposal well located in the SESE, Section 28, T7S, R23E,
West End Disposal located in the NESE, Section 28, T7S, R22E.

Produced water, oil, and other byproducts will not be applied to roads or well pads for the control of dust or weeds. The dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site. The spills will be reported to the AO and other authorities as appropriate.

A chemical porta-toilet will be furnished with the drilling rig. The chemical porta-toilet wastes will be hauled to Ashley Valley Sewer and Water System for disposal.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location. All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig. All trash and waste material will be hauled to the Uintah County Landfill.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas. Specific APD's shall address any modifications from this policy.

8. Ancillary Facilities:

None anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram rig orientation, parking areas, and access roads, as well as the location of the following:

The reserve pit.

The stockpiled topsoil (first six inches), will not be used for facility berms. All brush removed from the well pad during construction will be stockpiled with topsoil.

The flare pit or flare box will be located downwind from the prevailing wind direction.

Any drainage that crosses the well location will be diverted around the location by using ditches, water diversion drains or berms. If deemed necessary at the

on-site, erosion drains may be installed to contain sediments that could be produced from access roads and well locations.

A pit liner is required. A felt pit liner will be required if bedrock is encountered.

10. Fencing Requirements:

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched using a stretching device before it is attached to corner posts.

The reserve pit will be fenced on three (3) sides during drilling operations. The fourth side will be put in place when the rig moves off location. The pit will be fenced and maintained until it is backfilled. If drilling operations does not commence within 3 days, the fourth side of the fence will be installed

11. Plans for Reclamation of the Surface:

Please refer to QEP Energy Company Uinta Basin Division Reclamation Plan

Site Specific Procedures:

Site Specific Reclamation Summary:

Reclamation will follow Questar Exploration and Production Company, Uinta Basin Division's Reclamation Plan, September 2009 (Questar's Reclamation Plan) and the BLM Green River District Reclamation Guidelines.

All trash and debris will be removed from the disturbed area.

The disturbed area will be backfilled with subsoil.

Topsoil will be spread to an even, appropriate depth and disked if needed.

Water courses and drainages will be restored.

Erosion control devices will be installed where needed.

Seeding will be done in the fall, prior to ground freeze up.

Seed mix will be submitted to a BLM AO for approval prior to seeding.

Monitoring and reporting will be conducted as stated in Questar's Reclamation Plan. A reference site and weed data sheet has been established and are included in this application.

It was determined and agreed upon that there is 7" inches of top soil.

12. Surface Ownership:

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078
(435) 781-4400

13. Other Information:

This well is being twinned on well location RW 14-18C.

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on May 9, 2011 **State of Utah Antiquities Project U-11-MQ-0230b** by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on May 27, 2011 **IPC # 11-33** by Stephen D. Sandau. The inspection resulted in the location of no fossil resources. However, if vertebrate fossil(s) are found during construction a paleontologist should be immediately notified. QEP will provide Paleo monitor if needed.

Lessee's or Operator's Representative & Certification:

Valyn Davis
Regulatory Affairs Analyst
QEP Energy Company
11002 East 17500 South
Vernal, UT 84078
(435) 781-4369

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

QEP Energy Company is considered to be the operator of the subject well.
QEP Energy Company agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104.2 for lease activities is being provided by
Bond No. ESB000024

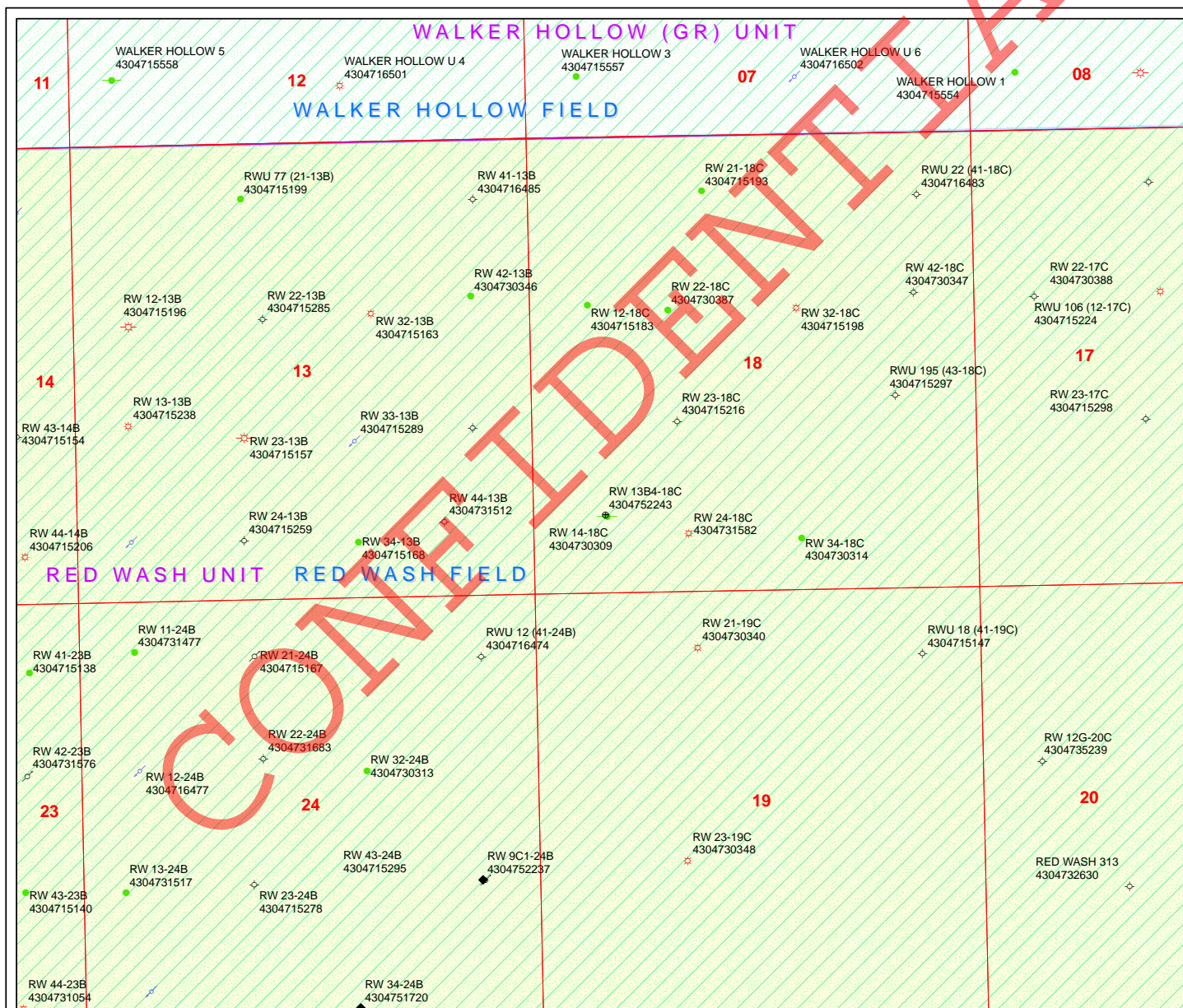
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist, that I have full knowledge of the State and Federal laws applicable to this operations; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Valyn Davis

12/14/2011

Date



API Number: 4304752243

Well Name: RW 13B4-18C

Township T0.7 . Range R2.4 . Section 18

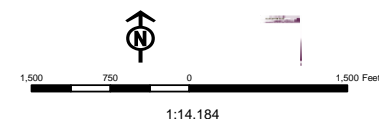
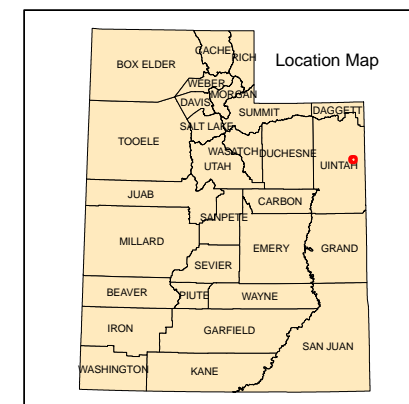
Meridian: SLBM

Operator: QEP ENERGY COMPANY

Map Prepared:

Map Produced by Diana Mason

Units	Wells Query
STATUS	STATUS
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERM	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Fields	SGW - Shut-in Gas Well
Unknown	SOW - Shut-in Oil Well
ABANDONED	TA - Temp. Abandoned
ACTIVE	TW - Test Well
COMBINED	WDW - Water Disposal
INACTIVE	WW - Water Injection Well
STORAGE	WSW - Water Supply Well
TERMINATED	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

January 6, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2012 Plan of Development Red Wash Unit,
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Red Wash Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MESA VERDE)		
43-047-52242	RW 5D2-26B	Sec 26 T07S R23E 2127 FNL 0584 FWL
43-047-52243	RW 13B4-18C	Sec 18 T07S R24E 0911 FSL 0800 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov,
c=US
Date: 2012.01.06 08:19:24 -0700

bcc: File - Red Wash Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:1-6-12

RECEIVED: January 06, 2012

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/2011

API NO. ASSIGNED: 43047522430000

WELL NAME: RW 13B4-18C

OPERATOR: QEP ENERGY COMPANY (N3700)

PHONE NUMBER: 435 781-4369

CONTACT: Valyn Davis

PROPOSED LOCATION: SWSW 18 070S 240E

Permit Tech Review: ☒

SURFACE: 0911 FSL 0800 FWL

Engineering Review: ☐

BOTTOM: 0911 FSL 0800 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.20478

LONGITUDE: -109.26301

UTM SURF EASTINGS: 647829.00

NORTHINGS: 4451932.00

FIELD NAME: RED WASH

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU02148

PROPOSED PRODUCING FORMATION(S): MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - ESB000024☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: A-36125/ 49-2153☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: RED WASH

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 187-07

Effective Date: 9/18/2001

Siting: Suspends General Siting

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason

RECEIVED: January 12, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: RW 13B4-18C

API Well Number: 43047522430000

Lease Number: UTU02148

Surface Owner: FEDERAL

Approval Date: 1/12/2012

Issued to:

QEP ENERGY COMPANY, 11002 East 17500 South, Vernal, Ut 84078

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 187-07. The expected producing formation or pool is the MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

RECEIVED

FEB 15 2012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 15 2011

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		CONFIDENTIAL	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. 892000761X	
2. Name of Operator QEP ENERGY COMPANY		8. Lease Name and Well No. RW 13B4-18C	
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078		9. API Well No. 43-047-52243	
3b. Phone No. (include area code) Ph: 435-781-4369 Fx: 435-781-4395		10. Field and Pool, or Exploratory RED WASH	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface Lot 4 911FSL 800FWL 40.204786 N Lat, 109.263142 W Lon At proposed prod. zone Lot 4 911FSL 800FWL 40.204786 N Lat, 109.263142 W Lon		11. Sec., T., R., M., or Blk. and Survey or Area Sec 18 T7S R24E Mer SLB	
14. Distance in miles and direction from nearest town or post office* 27 MILES +/- SOUTHEAST OF VERNAL, UTAH		12. County or Parish UINTAH	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 800'		13. State UT	
16. No. of Acres in Lease 1262.32		17. Spacing Unit dedicated to this well 40.00	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. +/- 1000'		20. BLM/BIA Bond No. on file ESB000024	
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5677 GL		23. Estimated duration 30 DAYS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) VALYN DAVIS Ph: 435-781-4369	Date 12/14/2011
Title REGULATORY AFFAIRS ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date FEB 08 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #125708 verified by the BLM Well Information System
For QEP ENERGY COMPANY, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 12/27/2011 (12RRH1110AE)

NOTICE OF APPROVAL

UDOGM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

12RRH1110AE

NO NOS



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: QEP Energy Company
Well No: RW 13B4-18C
API No: 43-047-52243

Location: Lot 4, Sec. 18, T7S, R24E
Lease No: UTU-02148
Agreement: Red Wash Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved 03/31/2008. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 03/31/2013 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- This project will be implemented on or after the sundry approval date. If the well has not been spudded by March 31, 2013 this sundry will expire and the operator is to cease all operations related to preparing to drill the well.
- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur, and a completed Weed Inventory Form will be submitted to the BLM Authorized Officer.

Reclamation

- Reclamation will be completed in accordance with the Questar Exploration and Production Company, Uintah Basin Division's Reclamation Plan on file with the Vernal Field Office of the BLM.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought 500' up and into the surface casing.
- For the SR sundry covering drilling operations on the first day (when the surface hole is first drilled), operator shall note in the report the volume of water in units of barrels out on location, stored in pits-tanks.
- Electronic/mechanical mud monitoring equipment shall be required, from surface casing shoe to TD, which shall include as a minimum: pit volume totalizer (PVT); stroke counter; and flow sensor.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02148
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		8. WELL NAME and NUMBER: RW 13B4-18C
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0911 FSL 0800 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 24.0E Meridian: S		9. API NUMBER: 43047522430000
9. FIELD and POOL or WILDCAT: RED WASH		COUNTY: UINTAH
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/23/2012	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ON 05/23/2012- SET 90' OF 14" CONDUCTOR PIPE. CEMENTED WITH READY MIX.

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

June 05, 2012

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 6/4/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02148
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: RW 13B4-18C
2. NAME OF OPERATOR: QEP ENERGY COMPANY	9. API NUMBER: 43047522430000
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078	PHONE NUMBER: 303 308-3068 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0911 FSL 0800 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 24.0E Meridian: S	9. FIELD and POOL or WILDCAT: RED WASH COUNTY: UINTAH STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/22/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

QEP ENERGY COMPANY REQUESTS TO CHANGE THE DRILLING PLAN ON THE ABOVE MENTIONED WELL: THE SURFACE HOLE WILL BE DRILLED WITH AIR, AIR/MIST, FOAM OR MUD DEPENDING ON HOLE CONDITIONS. DRILLING BELOW SURFACE CASING WILL BE WITH WATER BASED DRILLING FLUIDS CONSISTING PRIMARILY OF FRESH WATER, BENTONITE, LIGNITE, CAUSTIC, LIME, SODA ASH AND POLYMERS. NO CHROMATES WILL BE USED. IT IS NOT INTENDED TO USE OIL IN THE MUD, HOWEVER, IN THE EVENT IT IS USED, OIL CONCENTRATION WILL BE LESS THAN 4% BY VOLUME. MAXIMUM ANTICIPATED MUD WEIGHT IS 9.5 PPG. QEP ENERGY COMPANY REQUESTS TO SET 90' OF 14" CONDUCTOR PIPE. QEP ENERGY COMPANY WOULD LIKE TO OPTIMIZE THE BOTTOM HOLE SPACING OF THE MESA VERDE DEVELOPMENT; THEREFORE, QEP ENERGY COMPANY WOULD LIKE TO DRILL THIS WELL WITH A SMALL STEP OUT OF +/- 449'. BOTTOM HOLE FOOTAGES ARE: 757' FSL, 378' FWL, LOT 4, SEC. 18, T7S, R24E 40.204369 N LAT., 109.264656 W LON. REVISED MD: 10,616'.

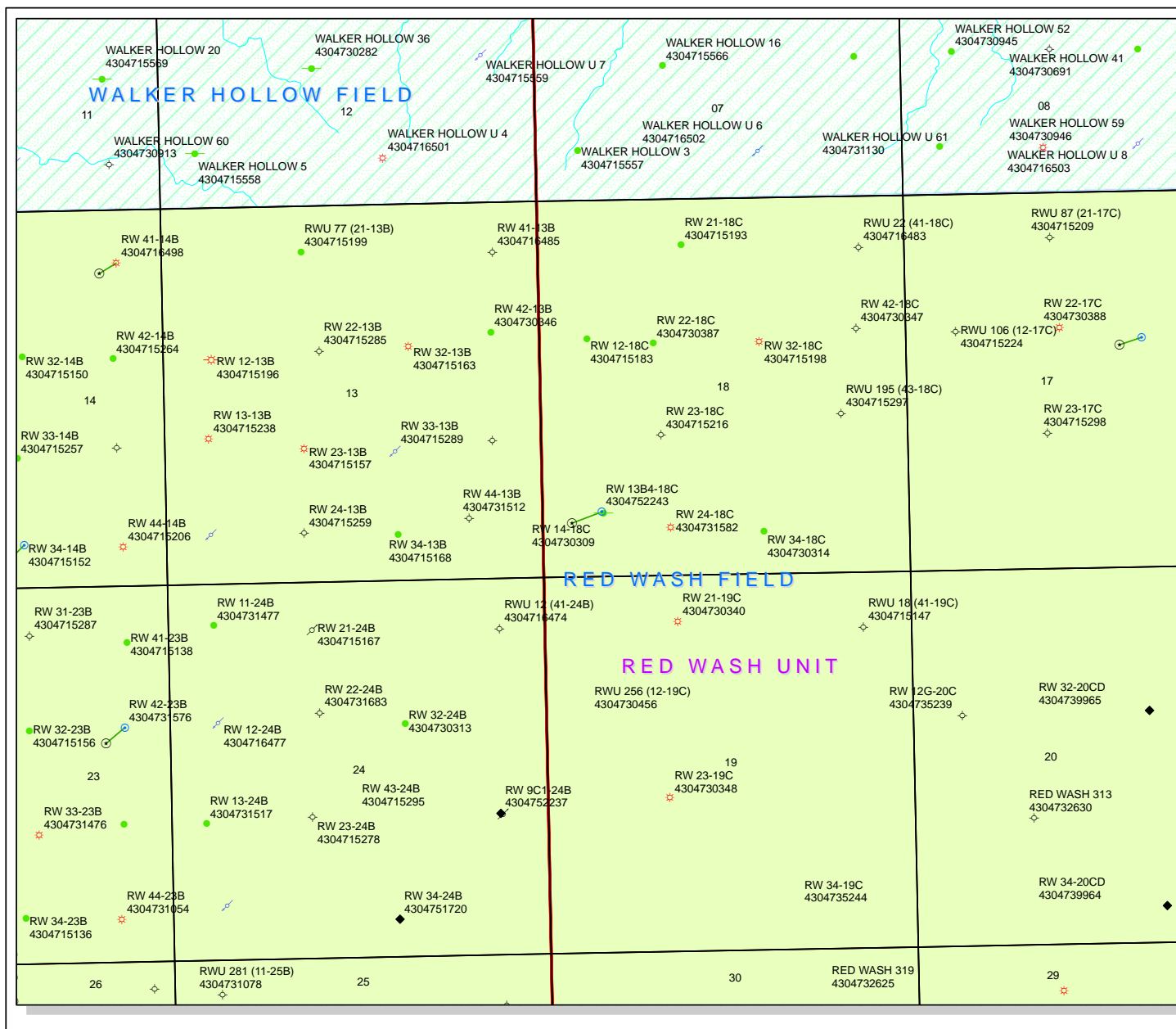
**Approved by the
 Utah Division of
 Oil, Gas and Mining**

Date: June 18, 2012

By: 

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 5/22/2012	

RECEIVED: May. 22, 2012



API Number: 4304752243

Well Name: RW 13B4-18C

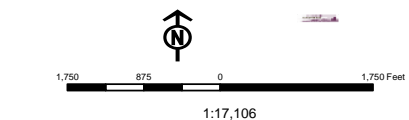
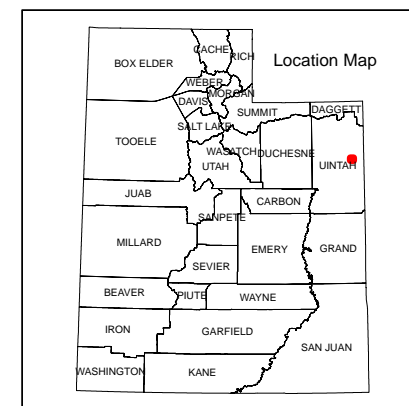
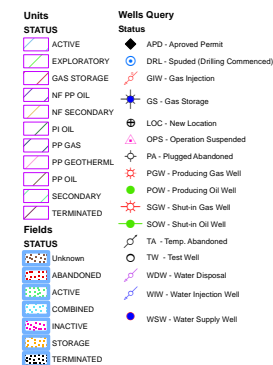
Township T0.7 . Range R2.4 . Section 18

Meridian: SLBM

Operator: QEP ENERGY COMPANY

Map Prepared:

Map Produced by Diana Mason



T7S, R24E, S.L.B.&M.

QEP ENERGY COMPANY

Well location, RW #13B4-18C, located as shown in Lot 4 of Section 18, T7S, R24E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

1000'

500'

0

500'

1000'

SCALE

N

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PART WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY CLOSE SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

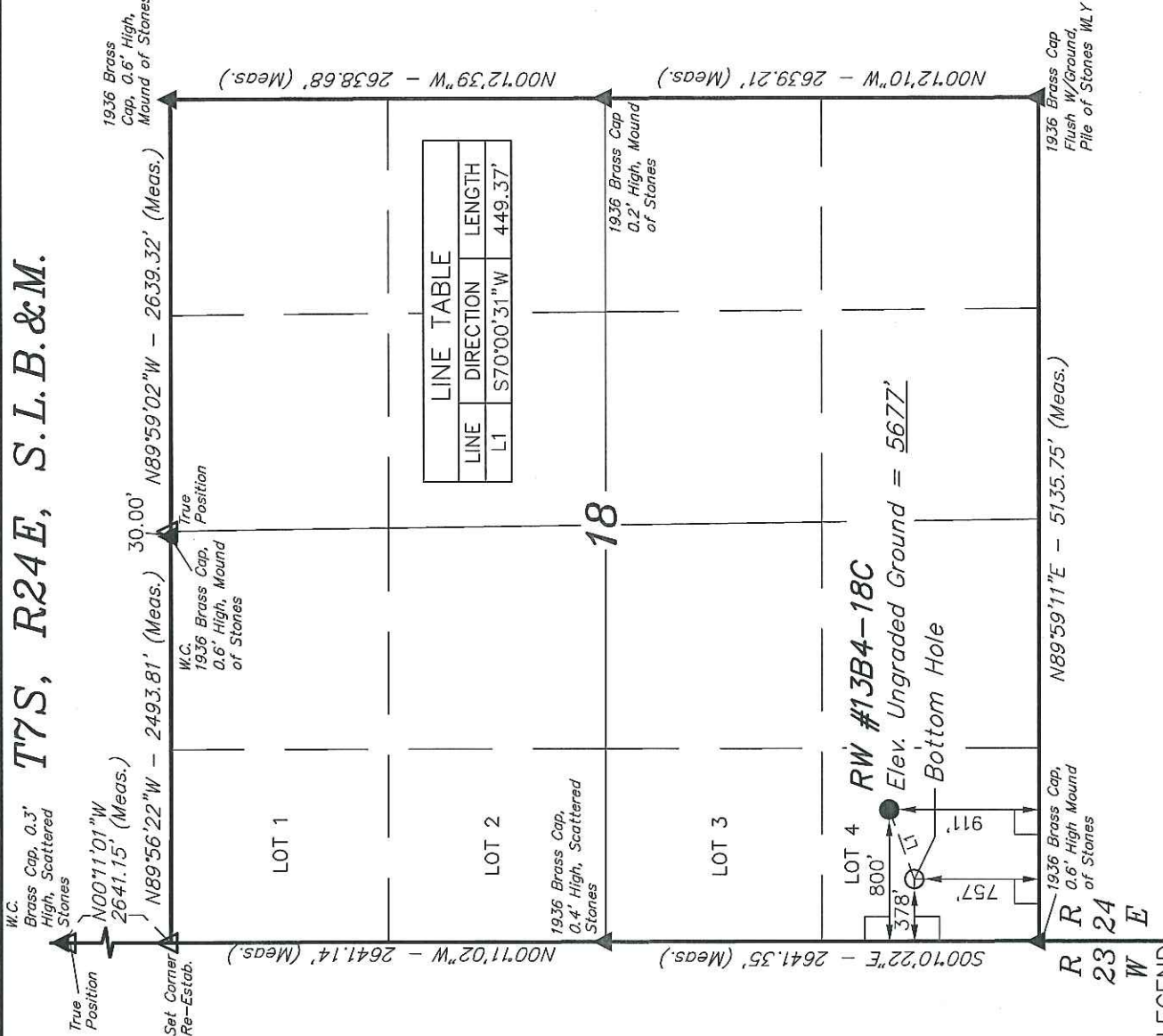
REGISTERED LAND SURVEYOR

STATE OF UTAH

EXPIRATION DATE 05-20-12

REV: 05-22-12 C.A.G.

REV: 11-02-11 J.I.



LEGEND.

—

 = 90° SYMBOL

●

 = PROPOSED WELL HEAD.

▲

 = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)

LATITUDE = 40°12'15.73" (40.204369)

LONGITUDE = 109°15'52.76" (109.264656)

NAD 83 (SURFACE LOCATION)

LATITUDE = 40°12'17.23" (40.204786)

LONGITUDE = 109°15'47.31" (109.263142)

NAD 27 (TARGET BOTTOM HOLE)

LATITUDE = 40°12'15.86" (40.204406)

LONGITUDE = 109°15'50.31" (109.263975)

NAD 27 (SURFACE LOCATION)

LATITUDE = 40°12'17.36" (40.204822)

LONGITUDE = 109°15'44.86" (109.262461)

UNTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE

1" = 1000'

DATE SURVEYED:

03-14-11

DATE DRAWN:

03-16-11

PARTY

A.F. J.C. K.O.

REFERENCES

G.L.O. PLAT

WEATHER

COLD

FILE

QEP ENERGY COMPANY



QEP Energy Company

QEP ENERGY (UT)

Red Wash

RW 14-18C (RW 13B4-18C) Pad

RW 13B4-18C

Original Hole

Plan: Plan ver.0

Standard Planning Report

10 May, 2012



QEP Energy Company



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 13B4-18C
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5693.20usft (FRONTIER 2)
Project:	Red Wash	MD Reference:	RKB @ 5693.20usft (FRONTIER 2)
Site:	RW 14-18C (RW 13B4-18C) Pad	North Reference:	True
Well:	RW 13B4-18C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Project	Red Wash		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site	RW 14-18C (RW 13B4-18C) Pad				
Site Position:		Northing:	7,251,113.123 usft	Latitude:	40.204736
From:	Lat/Long	Easting:	2,265,133.125 usft	Longitude:	-109.263061
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.43 °

Well	RW 13B4-18C					
Well Position	+N/-S	18.21 usft	Northing:	7,251,130.760 usft	Latitude:	40.204786
	+E/-W	-22.50 usft	Easting:	2,265,110.177 usft	Longitude:	-109.263142
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,677.20 usft	Ground Level:	5,677.20 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/10/2012	10.89	66.06	52,377

Design	Plan ver.0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	250.01

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,732.31	14.65	263.54	1,724.36	-10.47	-92.50	2.00	2.00	0.00	263.54	
2,982.77	14.65	263.54	2,934.19	-46.04	-406.67	0.00	0.00	0.00	0.00	
3,959.18	0.00	0.00	3,900.00	-60.00	-530.00	1.50	-1.50	0.00	180.00	
8,162.18	0.00	0.00	8,103.00	-60.00	-530.00	0.00	0.00	0.00	0.00	
8,395.51	3.50	131.00	8,336.19	-64.67	-524.62	1.50	1.50	0.00	131.00	
10,616.47	3.50	131.00	10,553.00	-153.63	-422.29	0.00	0.00	0.00	0.00	



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 13B4-18C
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5693.20usft (FRONTIER 2)
Project:	Red Wash	MD Reference:	RKB @ 5693.20usft (FRONTIER 2)
Site:	RW 14-18C (RW 13B4-18C) Pad	North Reference:	True
Well:	RW 13B4-18C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,732.31	14.65	263.54	1,724.36	-10.47	-92.50	90.50	2.00	2.00	0.00
2,982.77	14.65	263.54	2,934.19	-46.04	-406.67	397.91	0.00	0.00	0.00
3,959.18	0.00	0.00	3,900.00	-60.00	-530.00	518.58	1.50	-1.50	0.00
8,162.18	0.00	0.00	8,103.00	-60.00	-530.00	518.58	0.00	0.00	0.00
8,395.51	3.50	131.00	8,336.19	-64.67	-524.62	515.12	1.50	1.50	0.00
10,616.47	3.50	131.00	10,553.00	-153.63	-422.29	449.37	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RW 13B4-18C	0.00	0.00	8,103.00	-99.84	-483.64	7,251,018.865	2,264,629.225	40.204512	-109.264873
- plan misses target center by 61.16usft at 8164.05usft MD (8104.87 TVD, -60.00 N, -530.00 E)									
- Circle (radius 100.00)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
3,500.00	3,441.92	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,869.91	2,825.00	Green River		0.00	
3,582.57	3,524.00	Mahog. Bench		0.00	
5,972.18	5,913.00	Est. base of moderately saline water		0.00	
6,252.18	6,193.00	Wasatch		0.00	
8,162.18	8,103.00	Mesaverde		0.00	
10,516.28	10,453.00	Sego		0.00	



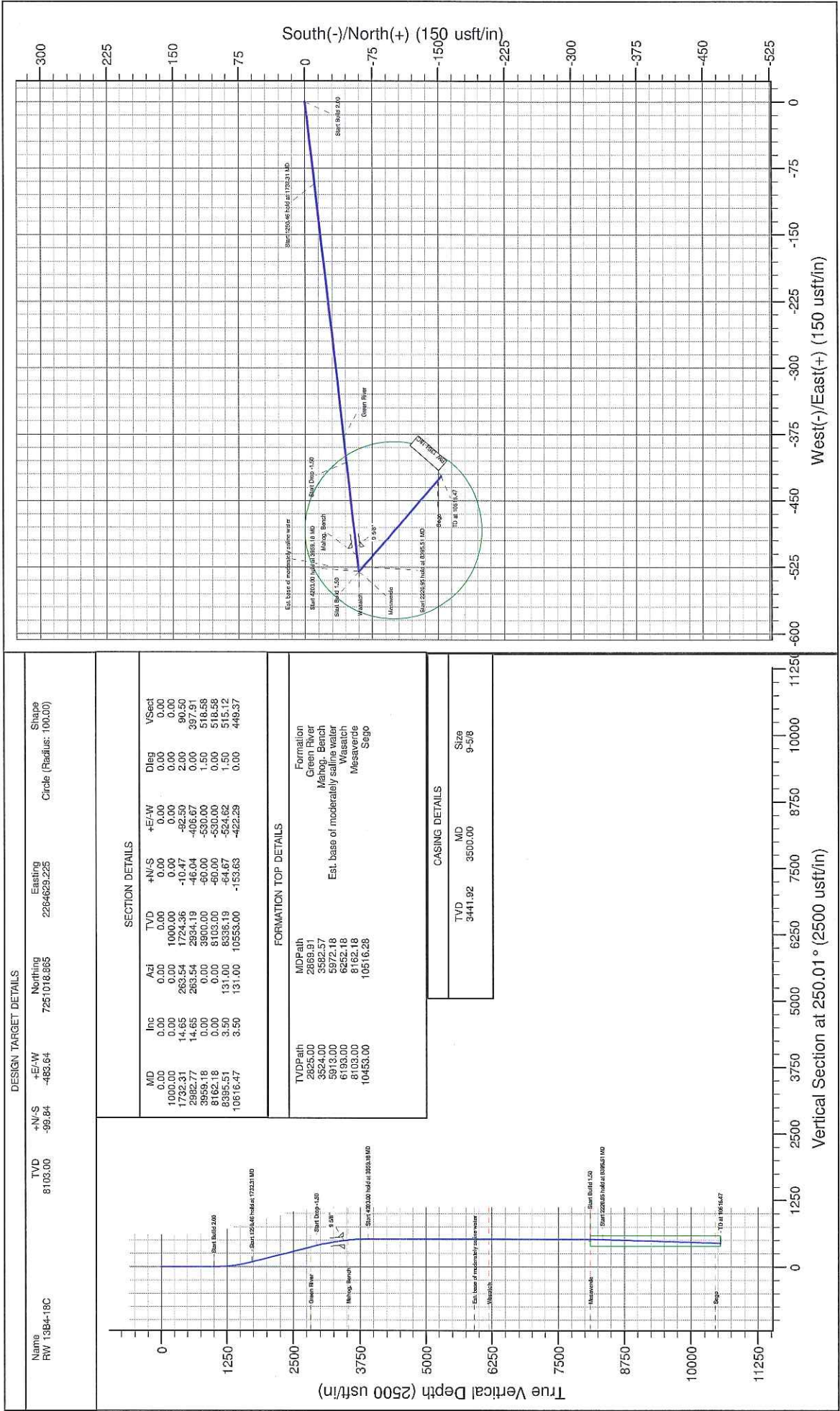
Company Name: QEP ENERGY (UT)



Project: Red Wash
Site: RW 14-18C (RW 1394-18C)
Well: RW 1394-18C
Wellbore: Original Hole
Design: Plan View

Actual to True North
Magnetic North: 10.8°
Magnetic Field
Strength: 507.6 nT
Date: 5/10/2012
Model: IGRF2010

WELL DETAILS: RW 1394-18C				REFERENCE INFORMATION		PROJECT DETAILS: Red Wash	
+N-S	+E-W	North	East	Co-ordinate (NE) Reference: Well RW 1394-18C, True North Vertical (VD) Reference: RKB @ 5693.20usft (FRONTIER 2)		Geodetic System: US State Plane 1983	
0.00	0.00	Longitude	Latitude	Section (VS) Reference: RKB @ 5693.20usft (FRONTIER 2)		Datum: North American Datum 1983	
		-109.263142	40.204786	Measured Depth Reference: RKB @ 5693.20usft (FRONTIER 2)		Ellipsoid: GRS 1980	
				Calculation Method: Minimum Curvature		Zone: Utah Central Zone	
						System Datum: Mean Sea Level	



CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; QEP ENERGY COMPANY

Well Name: RW 13B4-18C

Api No: 43-047-52243 Lease Type FEDERAL

Section 18 Township 07S Range 24E County UINTAH

Drilling Contractor FRONTIER RIG # 2

SPUDDED:

Date 06/04/2012

Time NOON

How ROTARY

Drilling will

Commence: _____

Reported by LARRY BECKER

Telephone # (435) 828-0315

Date 06/06/2012 Signed CHD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: QEP ENERGY COMPANY Operator Account Number: N 3700
Address: 11002 EAST 17500 SOUTH
city VERNAL
state UT zip 84078 Phone Number: (435) 781-4369

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752243	RW 13B4-18C		SWSW	18	7S	24E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	18478	5/23/2012			1/1/2012	
Comments: WMMFD							

CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

JUN 06 2012

Div. of Oil, Gas & Mining

Valyn Davis

Name (Please Print)

Signature

Regulatory Affairs Analyst

Title

6/4/2012

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02148
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078		8. WELL NAME and NUMBER: RW 13B4-18C
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0911 FSL 0800 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 24.0E Meridian: S		9. API NUMBER: 43047522430000
9. FIELD and POOL or WILDCAT: RED WASH		COUNTY: UINTAH
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/1/2012	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION			
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 THIS WELL COMMENCED PRODUCTION ON JULY 1, 2012 @ 2:00 a.m.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 July 03, 2012

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 7/2/2012	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

AMENDED REPORT ☐
(highlight changes)

FORM 8

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU02148

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER _____

2. NAME OF OPERATOR:
QEP ENERGY COMPANY

3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078
PHONE NUMBER: (435) 781-4369

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 911' FSL, 800' FWL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 768' FSL, 297' FWL
AT TOTAL DEPTH: 749' FSL, 320' FWL BHL by HEM

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
RED WASH

8. WELL NAME and NUMBER:
RW 13B4-18C ✓

9. API NUMBER:
4304752243

10 FIELD AND POOL, OR WILDCAT
RED WASH

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWSW 18 7S 24E

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPUDDED: 5/23/2012 15. DATE T.D. REACHED: 6/17/2012 16. DATE COMPLETED: 6/30/2012
ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
5693 KB

18. TOTAL DEPTH: MD 10,535 950 TVD 10,535 932
19. PLUG BACK T.D.: MD 10,538 TVD 10,468

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

QUAD COMBO, CBL

23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 N-80	40	0	3,594		770			
7.875	4.5 HCR	11.6	0	10,938		G 1,849	783	1970	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	10,632							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESA VERDE	9,849	10,704		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
9,849 10,704	.35	144	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
10588 TO 10704	19 BBL 15% KCL, 5693 BBL SLICKWATER, 1352 SX 30/50 SAND
10385 TO 10495	19 BBL 15% KCL, 5327 BBL SLICKWATER, 1116 SX 30/50 SAND
9849 TO 10092	19 BBL 15% KCL, 2389 BBL SLICKWATER, 547 SX 30/50 SAND

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☒ OTHER: OPS SUMMARY

30. WELL STATUS:

PGW

RECEIVED

AUG 09 2012

DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 7/1/2012		TEST DATE: 7/3/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 19		GAS – MCF: 638		WATER – BBL: 568		PROD. METHOD: FLOWING							
CHOKE SIZE: 25/64		TBG. PRESS. 1,421		CSG. PRESS. 2,313		API GRAVITY		BTU – GAS		GAS/OIL RATIO		24 HR PRODUCTION RATES: →		OIL – BBL: 19		GAS – MCF: 638		WATER – BBL: 568		INTERVAL STATUS:	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	2,822
				MAHOGANY	3,521
				WASATCH	5,945
				MESA VERDE	8,380
				SEGO	10,843

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) VALYN DAVIS

TITLE REGULATORY AFFAIRS ANALYST

SIGNATURE

Valyn Davis

DATE 8/6/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Operations Summary Report

Legal Well Name: RW 13B4-18C
 Common Well Name: RW 13B4-18C
 Event Name: DRILLING
 Contractor Name: Frontier Drilling
 Rig Name: FRONTIER

Start: 5/14/2012
 Rig Release: 6/17/2012
 Rig Number: 2

Spud Date: 6/1/2012
 End: 6/17/2012
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/30/2012	06:00 - 06:00	24.00	LOC	4	RDMO	RIG DOWN TOP DRIVE, LAY OVER DERRICK, ROLL UP WIRES, READY RIG FOR TRUCKS
5/31/2012	06:00 - 18:00	12.00	LOC	3	MIRU	MOVE RIG AND RIG UP WITH TRUCKS. WEST ROC MOVED RIG, 4.2 MILES. MOVE AND RIG UP SUB, MUD TANKS, WATER TANKS, CAMPS, PUMPS AND BACK YARD. RAISE DERRICK AT 1800 HRS.
6/1/2012	18:00 - 06:00	12.00	LOC	4	MIRU	RIG UP BY HAND, HANG TOP DRIVE TRACK.
	06:00 - 06:00	24.00	LOC	4	MIRU	RIG UP WITH TRUCKS AND CRANE TILL 10:00. RIG UP BY HAND. RIG UP TOP DRIVE, AND AIR PACKAGE.
6/2/2012	06:00 - 17:00	11.00	LOC	4	MIRU	RIG UP BY HAND. RIG UP AIR LINES
	17:00 - 20:00	3.00	RIG	7	DRLSUR	PRE JOB SAFETY MEETING. SAFETY MEETING WITH, CHAD ANTON, MARK KORDUS, GARY LONGHENRY, FLOYD MARTINEZ, MURRAY BECKER, AND PRESION AIR PEOPLE.
						PRE SPUD MEETING WITH CHAD ANTON, MARK KORDUS, FLOYD MARTINEZ, MURRAY BECKER, TOTAL DIRECTIONAL HAND, MWD HAND, TOOLPUSHER, MUD HAND,
						PJSM, WITH RIG HANDS, TOOLPUSHER, FRONTIER SAFETY HAND, PRESION AIR HANDS, QEP CO. MEN.
						TEST AIR LINES TO 1500 PSI. FOR 15 MINS. OK.
	20:00 - 21:30	1.50	TRP	1	DRLSUR	PJSM, PICK UP DIRECTIONAL TOOLS
	21:30 - 22:30	1.00	RIG	1	DRLSUR	RIG SERVICE CHANGE OUT GRABBER DIES
	22:30 - 23:00	0.50	TRP	1	DRLSUR	ORIENT DIRECTIONAL TOOLS
	23:00 - 04:30	5.50	DRL	1	DRLSUR	DRILL FROM 90' TO 475' = 385' FT. @ 70 FPH, 5-15 K ON BIT, PUMPS 2 X 100 SPM, 566 GPM, SPP 1050 PSI, 50 RPM ON TOP DRIVE, 96 RPM MUD MOTOR, MW 8.4 PPG VIS 27
	04:30 - 05:00	0.50	OTH		DRLSUR	INSTALL ROTATING RUBBER
	05:00 - 06:00	1.00	DRL	1	DRLSUR	DRILL FROM 475' TO 621' = 146' FT. @ 146 FPH 5-15 K ON BIT PUMPS 2 X 100 SPM, 566 GPM, SPP 1050 PSI, 50 RPM ON TOP DRIVE, 96 RPM MUD MOTOR, MW 8.4 PPG VIS 27
	06:00 - 15:00	9.00	DRL	2	DRLSUR	DIRECTIONAL DRILL FROM 621 TO 1462 = 93.4 FPH. 1250 PSI ON 2 PUMPS WITH 110 SPM ON BOTH. 586 GPM, 10-15 WT. ON BIT, 45 RPM ON TOP DRIVE, 100 RPM ON MUD MOTOR,, = 145 TOTAL RPM. 1.83 BEND ON MOTOR, .17 GPR.
						STARTED KICK OFF AT 850 FT. FIRST SLIDE WAS 20 FT. MOTOR YIELD IS 5.5 DEGREES PER 100 FT. ON FIRST SLIDE.
						RIG SERVICE.
6/3/2012	15:00 - 16:00	1.00	RIG	1	DRLSUR	DIRECTIONAL DRILL FROM 1462 TO 1621 = 79.5 FPH. 1250 PSI ON 2 PUMPS WITH 100 SPM ON BOTH. 566 GPM, 10-15 WT. ON BIT, 30 - 45 RPM ON TOP DRIVE, 96 RPM ON MUD MOTOR,, = 141 TOTAL RPM. 1.83 BEND ON MOTOR, .17 GPR.
	16:00 - 18:00	2.00	DRL	2	DRLSUR	DIRECTIONAL DRILL FROM 1621 TO 2508 = 88.7 FPH. 1250 PSI ON 2 PUMPS WITH 100 SPM ON BOTH. 566 GPM, 10-15 WT. ON BIT, 30 - 45 RPM ON TOP DRIVE, 96 RPM ON MUD MOTOR,, = 141 TOTAL RPM. 1.83 BEND ON MOTOR, .17 GPR.
	18:00 - 04:00	10.00	DRL	2	DRLSUR	DIRECTIONAL DRILL FROM 1621 TO 2508 = 88.7 FPH. 1250 PSI ON 2 PUMPS WITH 100 SPM ON BOTH. 566 GPM, 10-15 WT. ON BIT, 30 - 45 RPM ON TOP DRIVE, 96 RPM ON MUD MOTOR,, = 141 TOTAL RPM. 1.83 BEND ON MOTOR, .17 GPR.

Operations Summary Report

Legal Well Name: RW 13B4-18C
 Common Well Name: RW 13B4-18C
 Event Name: DRILLING
 Contractor Name: Frontier Drilling
 Rig Name: FRONTIER

Spud Date: 6/1/2012
 Start: 5/14/2012 End: 6/17/2012
 Rig Release: 6/17/2012 Group:
 Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/3/2012	04:00 - 06:00	2.00	DRL	1	DRLSUR	DRILLWITH AIR / WATER, FROM 2508 TO 2695 = 93.5 FPH. 1350 PSI ON 2 PUMPS WITH 85 SPM ON BOTH. 480 GPM,+ CFM-1600=694 GPM 8-12 WT. ON BIT, 30 - 45 RPM ON TOP DRIVE, 118 RPM ON MUD MOTOR,, = 158 TOTAL RPM. 1.83 BEND ON MOTOR, .17 GPR.
6/4/2012	06:00 - 06:00	24.00	DRL	2	DRLSUR	DRILLWITH AIR / WATER, FROM 2695 TO 3552 = 35.7 FPH.1000 - 1250 PSI ON 2 PUMPS WITH 85 SPM ON BOTH. 480 GPM,+ CFM-1600 - 2600 = 694 GPM 10-20 WT. ON BIT, 30 - 50 RPM ON TOP DRIVE, 118 RPM ON MUD MOTOR,, = 158 TOTAL RPM. 1.83 BEND ON MOTOR, .17 GPR.
6/5/2012	06:00 - 06:30	0.50	DRL	2	DRLSUR	DRILLWITH AIR / WATER, FROM 3552 TO 3600 = 96 FPH.1000 - 1250 PSI ON 2 PUMPS WITH 85 SPM ON BOTH. 480 GPM,+ CFM-1600 - 2600 = 694 GPM 10-20 WT. ON BIT, 30 - 50 RPM ON TOP DRIVE, 118 RPM ON MUD MOTOR,, = 158 TOTAL RPM. 1.83 BEND ON MOTOR, .17 GPR.
	06:30 - 08:30	2.00	CIRC	1	DRLSUR	CIRCULATE BOTTOMS UP X 2 AND SPOT LCM PILL
	08:30 - 09:00	0.50	TRP	14	DRLSUR	SHORT TRIP TO CONDUCTOR SHOE.
	09:00 - 16:00	7.00	REAM	1	DRLSUR	BACK REAMED FROM 3575 TO 3550, 3450 TO 3420, 3400 TO 3090.
	16:00 - 19:00	3.00	TRP	14	DRLSUR	SHORT TRIP TO CONDUCTOR SHOE.
	19:00 - 20:30	1.50	REAM	1	DRLSUR	BACK REAM FROM 1410 TO 1376
	20:30 - 22:00	1.50	TRP	14	DRLSUR	SHORT TRIP TO CONDUCTOR
	22:00 - 22:30	0.50	OTH		DRLSUR	RIG DOWN AIR JAMMER
	22:30 - 23:30	1.00	RIG	1	DRLSUR	RIG SERVICE RIG AND TOP DRIVE
	23:30 - 01:30	2.00	TRP	14	DRLSUR	TRIP IN HOLE SLOW to 2698
	01:30 - 04:00	2.50	CIRC	1	DRLSUR	PUMP 60 BBL PILL X 4 (WITH 20% LCM) 1 PUMP AT 60 SPM 175GPM 20 RPMS 200 PSI
	04:00 - 06:00	2.00	REAM	1	DRLSUR	WASH TO BOTOM FROM 2698 TO 3350 2 PUMP AT 70 SPM 410 GPM 50 RPM
6/6/2012	06:00 - 11:30	5.50	REAM	1	DRLSUR	REAM AND WASH TO BOTTOM FROM 3350 TO 3600. RUNNING 2 PUMPS AT 70 SPM. MIXING LCM, 20% DOWN, GETTING 15% OUT.
	11:30 - 13:00	1.50	CIRC	1	DRLSUR	CIRCULATE AT TD. CIRCULATE BOTTOMS UP AND PUMP 2 HIGH VIS, 20% LCM SWEEPS.
	13:00 - 18:30	5.50	TRP	2	DRLSUR	TRIP OUT TO RUN SURFACE CASING.
	18:30 - 19:30	1.00	TRP	1	DRLSUR	BACK REAM 3600 to 3075.
	19:30 - 21:30	2.00	CSG	1	DRLSUR	BREAK BIT OFF, LAY DOWN DIRECTIONAL TOOLS, MUD MOTOR ANDSHOCK SUB
	21:30 - 02:00	4.50	CSG	2	DRLSUR	PJSM RIG UP CASING CREW AND LAY DOWN TRUCK
	02:00 - 03:30	1.50	CIRC	1	DRLSUR	PJSM MAKE UP SHOE TRACK TEST SHOE AND FLOAT COLLAR RUN 9 5/8 CASING
	03:30 - 04:30	1.00	CSG	2	DRLSUR	FILL CASING AND CIRCULATE BOTTOMS UP @2700 90 SPM 260 GPM LOST 50 BBLS
	04:30 - 06:00	1.50	CSG	2	DRLSUR	RUN 9 5/8 CASING
6/7/2012	06:00 - 07:30	1.50	CIRC	1	CSGSUR	WASH CASING TO BOTTOM
	07:30 - 11:30	4.00	CMT	2	CSGSUR	CIRCULATE 9 5/8 CASING AND RIG UP HOWCO.
	11:30 - 15:00	3.50	WOT	1	CSGSUR	PJSM, RIG UP CEMENTERS AND CEMENT W / HOWCO.
	15:00 - 16:00	1.00	CMT	2	CSGSUR	RAN 84 JTS. OF 9 5/8, N-80, 40#, LT&C CASING. LANDED AT 3588 RKB. CEMENT WITH 570 SKS. OF LEAD, 200 SKS OF TAIL, LOST CIRCULATION 90 BBLS INTO DISPLACEMENT. BUMP PLUG WITH 500# OVER, FLOAT HELD, NO RETURNS WHEN BUMPED PLUG
						WAIT ON CEMENT.
						CEMENT, TOP JOB SURFACE. CEMENT W / 170 SKS CEMENT, OR

Operations Summary Report

Legal Well Name: RW 13B4-18C
 Common Well Name: RW 13B4-18C
 Event Name: DRILLING
 Contractor Name: Frontier Drilling
 Rig Name: FRONTIER

Spud Date: 6/1/2012
 Start: 5/14/2012 End: 6/17/2012
 Rig Release: 6/17/2012 Group:
 Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/7/2012	15:00 - 16:00	1.00	CMT	2	CSGSUR	39 BBLS, CIRCULATED 8 BBLS TO RESERVE PIT, CEMENT WAS DOWN 398 FT.
	16:00 - 18:00	2.00	WOT	1	CSGSUR	BEFOR TOP JOB. CEMENT DOWN 1600 6/06/2012. WAIT ON CEMENT AFTER TOP JOB.
6/8/2012	18:00 - 19:30	1.50	CSG	6	DRLPRO	CUTOFF CONDUCTOR AND CASING AND LAY DOWN
	19:30 - 22:00	2.50	WHD	1	DRLPRO	WELD ON WELL HEAD AND TEST
	22:00 - 06:00	8.00	BOP	1	DRLPRO	PJSM PICK BOPS AND NIPPLE UP CHANGE OUT SPOOL
	06:00 - 09:00	3.00	BOP	1	DRLPRO	NIPPLE UP BOP AND BOPE.
	09:00 - 09:30	0.50	OTH		DRLPRO	TEST CASING TO 1500 PSI. FOR 30 MINS.
	09:30 - 13:30	4.00	BOP	2	DRLPRO	PJSM. TEST BOP. TESTED UPPER AND LOWER KELLY VALVE, SAFETY VALVE, DART VALVE, PIPE AND BLIND RAMS, HCR VALVE, CHOKE
						LINE AND MANIFOLD TO 250 PSI. LOW TEST, 5000 PSI. HIGH TEST.
						TESTED ANNULAR 250 LOW AND 2500 HIGH PRESSURE.
						TESTED BY B & C QUICK TEST
	13:30 - 14:30	1.00	OTH		DRLPRO	INSTALL WEAR BUSHING
	14:30 - 17:00	2.50	DRL	1	DRLPRO	PICK UP BIT, MUD MOTOR, NON-MAG DC, GAP SUB AND ORIENT.
	17:00 - 20:00	3.00	TRP	2	DRLPRO	TRIP IN HOLE.
6/9/2012	20:00 - 01:30	5.50	OTH		DRLPRO	PJSM CLEAN CEMENT OUT FLOW LINE
	01:30 - 02:30	1.00	DRL	4	DRLPRO	DRILL CEMENT, FLOAT COLLAR AND SHOE AND 10' FORMATION
						231 GPM 30 RPM DHRPM 48
	02:30 - 03:00	0.50	EQT	2	DRLPRO	F.I.T. 360 PSI EMW 10.5 PPG W/8.5 PPG
	03:00 - 06:00	3.00	DRL	1	DRLPRO	DIR. DRILL FROM 3600' TO 3752' = 152 FT. @ 50.6 FPH 15-20 K ON BIT
						PUMPS 2 X 65 SPM, 376 GPM, 40 RPM ON TOP DRIVE, 73 RPM MUD MOTOR,
						SLIDE 30' 1/2 HR 122' 2
						1/2 HRS
	06:00 - 16:00	10.00	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 3752 TO 4579, 82.7 FPH, RUNNING 2 PUMPS AT 80 SPM EACH, 450 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 95 RPM, 50 RPM ON TOP DRIVE, 145 TOTAL RPM.
						RUNNING 12 TO 18 K ON BIT. VIS IS 30, WT. IS 8.8.
6/10/2012	16:00 - 16:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	16:30 - 06:00	13.50	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 4579 TO 6125, 114.5 FPH, RUNNING 2 PUMPS AT 80 SPM EACH, 450 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 95 RPM, 50 RPM ON TOP DRIVE, 145 TOTAL RPM.
						RUNNING 15-20 K FOR WT. ON BIT.
	06:00 - 15:00	9.00	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 6125 TO 7040, 101.6 FPH, RUNNING 2 PUMPS AT 80 SPM EACH, 450 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 95 RPM, 50 RPM ON TOP DRIVE, 145 TOTAL RPM.
6/11/2012						WE HAVE 38-40 VIS. AND 8.8 - 9.0 MUD WT., 2000 PUMP PRESSURE.
	15:00 - 15:30	0.50	RIG	1	DRLPRO	SERVICE RIG
	15:30 - 06:00	14.50	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 7040 TO 8056, 70 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM.
	06:00 - 15:00	9.00	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 8056 TO 8750, 77.1 FPH, RUNNING

Operations Summary Report

Legal Well Name: RW 13B4-18C
 Common Well Name: RW 13B4-18C
 Event Name: DRILLING
 Contractor Name: Frontier Drilling
 Rig Name: FRONTIER

Spud Date: 6/1/2012
 Start: 5/14/2012 End: 6/17/2012
 Rig Release: 6/17/2012 Group:
 Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/11/2012	06:00 - 15:00	9.00	DRL	2	DRLPRO	2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM. THE MUD WT. IS 9.8 AND THE VIS 40. PUMP PSI. IS 2000.
	15:00 - 16:00	1.00	RIG	1	DRLPRO	SERVICE RIG AND TOP DRIVE
	16:00 - 06:00	14.00	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 8750 TO 9538, 56.2 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM.
6/12/2012	06:00 - 10:00	4.00	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 9538 TO 9790, 63 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM.
	10:00 - 10:30	0.50	OTH		DRLPRO	CHANGE OUT ROTATING HEAD RUBBER.
	10:30 - 16:00	5.50	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 9790 TO 10075, 51.8 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM.
	16:00 - 17:00	1.00	RIG	1	DRLPRO	RIG SERVICE AND LOOK OVER TOP DRIVE
	17:00 - 23:30	6.50	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 10075 TO 10320, 37.9 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM. 20-24 K ON BIT. THE VIS IS 38 AND MY MUD WT. IS 10.35.
	23:30 - 01:00	1.50	OTH		DRLPRO	PICK UP TO 10,230 CIRCULATE AND CHANGE SAVER SUB
6/13/2012	01:00 - 06:00	5.00	DRL	1	DRLPRO	DIRECTIONAL DRILLING FROM 10,320 TO 10,521 40.2 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM. 20-24 K ON BIT. THE VIS IS 38 AND MY MUD WT. IS 10.35.
	06:00 - 14:30	8.50	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 10,521 TO 10743, 26.1 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM. 20-24 K ON BIT. THE VIS IS 40 AND MY MUD WT. IS 10.5.
	14:30 - 15:00	0.50	RIG	1	DRLPRO	SERVICE RIG AND TOP DRIVE.
	15:00 - 17:00	2.00	DRL	2	DRLPRO	DIRECTIONAL DRILLING FROM 10,743 TO 10791, 24 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM. 20-24 K ON BIT. THE VIS IS 39 AND MY MUD WT. IS 10.5.
	17:00 - 18:30	1.50	CIRC	1	EVAL 1	CIRCULATE AND CONDITION FOR SHORT TRIP.
	18:30 - 19:30	1.00	REAM	1	EVAL 1	BACK REAM F/ 10791' TO 10361' (430') AT 90 SPM WITH ONE PUMP 260 GPMS 55 RPM
	19:30 - 23:30	4.00	TRP	14	EVAL 1	PJSM SHORT TRIP TO THE SHOE 3580
	23:30 - 01:00	1.50	RIG	6	EVAL 1	PJSM CUT DRILLING LINE
	01:00 - 04:00	3.00	TRP	14	EVAL 1	TRIP IN HOLE FILL PIPE EVERY 30 STANDS
6/14/2012	04:00 - 06:00	2.00	RIG	6	EVAL 1	PULL DRILLING LINE OFF DRUM AND RESPOOL DRILLING LINE BACK ON DRUM @9374
	06:00 - 07:30	1.50	TRP	14	DRLPRO	TRIP IN HOLE TO 10,640 FILL PIPE EVERY 30 STANDS
	07:30 - 08:30	1.00	REAM	1	DRLPRO	WASH & REAM F/ 10,640' TO 10,791'
	08:30 - 10:30	2.00	CIRC	1	DRLPRO	PUMP SWEEP, CIRCULATE, SPOT WALLNUT IN OPEN HOLE & MIX

Operations Summary Report

Legal Well Name: RW 13B4-18C
 Common Well Name: RW 13B4-18C
 Event Name: DRILLING
 Contractor Name: Frontier Drilling
 Rig Name: FRONTIER

Spud Date: 6/1/2012
 Start: 5/14/2012 End: 6/17/2012
 Rig Release: 6/17/2012 Group:
 Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/14/2012	08:30 - 10:30	2.00	CIRC	1	DRLPRO	SLUG
	10:30 - 20:00	9.50	TRP	14	DRLPRO	FLOW CHECK, PUMP SLUG, P.O.O.H F/WIRE LINE LOGS, SLM, FLOW CHECK @ SHOE & BHA
	20:00 - 02:00	6.00	LOG	1	DRLPRO	PJSM RIG UP HALLIBURTON LOGGING, RUN TRIPLE COMBO TO 9840, TAG BRIDGE, LOG OUT AND RIG DOWN
6/15/2012	02:00 - 06:00	4.00	TRP	2	DRLPRO	PJSM LAY DOWN DRILL COLLARS, PICK UP BIT & BIT SUB TRIP IN HOLE FOR CLEAN OUT RUN TO RE LOG
	06:00 - 08:00	2.00	TRP	2	DRLPRO	T.I.H TO 10,641'
	08:00 - 08:30	0.50	REAM	1	DRLPRO	WASH & REAM F/10,641' TO 10,791'
	08:30 - 09:30	1.00	CIRC	1	DRLPRO	CIRCULATE OUT GAS 3137 UNIT
	09:30 - 11:30	2.00	TRP	14	DRLPRO	BACK REAM F/10,791' TO 10,321' & PULL UP TO 9,750' T.I.H TO 10,791'
	11:30 - 13:00	1.50	TRP	14	DRLPRO	PUMP SWEEP CIRCULATE & RAISE MW TO 10.8+
	13:00 - 14:00	1.00	CIRC	1	DRLPRO	PULL 12 STANDS TO 9,657' & T.I.H
	14:00 - 15:30	1.50	CIRC	1	DRLPRO	PUMP SWEEP CIRCULATE & SPOT WALL NUT IN OPEN HOLE MIX SLUG FLOW CHECK
	15:30 - 20:00	4.50	TRP	3	DRLPRO	P.O.O.H TO RUN WIRE LINE LOG
	20:00 - 02:00	6.00	LOG	1	DRLPRO	PJSM RIG UP THRU BIT LOGGERS, RUN OPEN HOLE TRIPLE COMBO F/ 10,816 TO 7500, TIE BACK TO HALLIBURTON LOGS
6/16/2012	02:00 - 06:00	4.00	TRP	2	DRLPRO	PJSM PICK UP DIRECTIONAL TOOLS, TRIP IN TO DRILL TO 10,900
	06:00 - 10:00	4.00	TRP	2	DRLPRO	T.I.H TO 10,685'
	10:00 - 11:00	1.00	REAM	1	DRLPRO	WASH & REAM F/10,685' TO 10,791' & CHANGE OUT ROT HEAD
	11:00 - 17:30	6.50	DRL	1	DRLPRO	DIRECTIONAL DRILLING FROM 10,791 TO 10936, 22 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM. 15-20 K ON BIT. THE VIS IS 40 AND MY MUD WT. IS 11.0.
	17:30 - 18:00	0.50	RIG	1	DRLPRO	SERVICE RIG AND TOP DRIVE.
	18:00 - 18:30	0.50	DRL	1	DRLPRO	DIRECTIONAL DRILLING FROM 10,936 TO 10950, 14 FPH, RUNNING 2 PUMPS AT 75 SPM EACH, 440 GPM, MUD MOTOR IS A HUNTING, 1.5 BEND 7-8 LOBE, 3.5 STAGE, .21 GPR, = 92 RPM, 50 RPM ON TOP DRIVE, 143 TOTAL RPM. 15-20 K ON BIT. THE VIS IS 40 AND MY MUD WT. IS 11.0.
	18:30 - 19:00	0.50	CIRC	1	DRLPRO	CIRCULATE SWEEP OUT FROM CONNECTION
	19:00 - 21:00	2.00	TRP	14	DRLPRO	WIPER TRIP 15 STANDS
	21:00 - 23:00	2.00	CIRC	1	DRLPRO	CIRCULATE HIGH VIS SWEEP, SPOT WALNUT
	23:00 - 06:00	7.00	TRP	3	DRLPRO	PULL 2 STANDS, LAY DOWN PIPE, PUMP SLUG, CONTINUE LAY DOWN PIPE
6/17/2012	06:00 - 08:00	2.00	TRP	1	DRLPRO	L/D HWDP & DIR TOOLS
	08:00 - 08:30	0.50	CSG	1	DRLPRO	PULL WEAR BUSHING
	08:30 - 10:30	2.00	CSG	1	DRLPRO	PJSM R/U WEATHERFORD CASING EQUIPMENT
	10:30 - 14:00	3.50	CSG	2	DRLPRO	M/U SHOE, FLOAT & ONE JT. PUMP THRU OK R.I.H W/ 4.5" PRO CASING FILL EVERY 25 JTS.
	14:00 - 14:30	0.50	CIRC	1	DRLPRO	CIRCULATE B/U @ SHOE 3,562'
	14:30 - 16:30	2.00	CSG	2	DRLPRO	R.I.H W/ 4.5" PRO CASING FILL EVERY 25 JTS.
	16:30 - 17:30	1.00	CIRC	1	DRLPRO	CIRCULATE B/U @ 6,488'
	17:30 - 19:00	1.50	CSG	2	DRLPRO	R.I.H W/ 4.5" PRO CASING FILL EVERY 25 JTS.
	19:00 - 20:00	1.00	CIRC	1	DRLPRO	CIRCULATE B/U @ 9,000'
	20:00 - 20:30	0.50	CSG	2	DRLPRO	R.I.H W/ 4.5" PRO CASING FILL TO 10,000'
	20:30 - 22:00	1.50	CIRC	1	DRLPRO	CIRCULATE B/U @ 10,000'
	22:00 - 00:30	2.50	CSG	2	DRLPRO	R.I.H W/ 4.5" PRO CASING FILL TO 10,500', WASH TO BOTTOM TAG BOTTOM AT 10,950
	00:30 - 02:00	1.50	CIRC	1	DRLPRO	CIRCULATE BOTTOMS UP RIG DOWN CASING CREW, PJSM WITH

Operations Summary Report

Legal Well Name: RW 13B4-18C
 Common Well Name: RW 13B4-18C
 Event Name: DRILLING
 Contractor Name: Frontier Drilling
 Rig Name: FRONTIER

Start: 5/14/2012 Spud Date: 6/1/2012
 Rig Release: 6/17/2012 End: 6/17/2012
 Rig Number: 2 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/17/2012	00:30 - 02:00	1.50	CIRC	1	DRLPRO	CEMENTERS
	02:00 - 06:00	4.00	CMT	2	DRLPRO	PJSM RIG UP CEMENTERS, TEST LINES TO 5000 PSI, PUMP 20 BBL 11.0 PPG TUNED SPACER, PUMP 551.7 BBLS 1050 SKS 11.0 PPG 17.48 GPS WATER 2.95 Y EXTENDACEM LEAD CEMENT, PUMP 232.2 BBL, 790 SKS, 13.0 PPG, 8.19 GPS WATER, 1.65 Y EXPANDACEM TAIL CEMENT, DROP PLUG DISPLACEMENT WITH KCL
6/18/2012	06:00 - 07:00	1.00	CMT	2	DRLPRO	DISPLACEMENTWITH 169 BBLS KCL, BUMP PLUG @ 3600, FLOATS HELD, 2 BBLS BACK TO TRUCK, 300 BBLS CEMENT TO PIT & R/D HALLIBURTON
	07:00 - 08:00	1.00	BOP	1	DRLPRO	FLUSH OUT LINES, BOP WITH SUGAR WATER
	08:00 - 11:30	3.50	CSG	7	DRLPRO	PJSM R/U WINCHES, NIPPLE DOWN BOP, LIFT STACK, SET SLIPS 135K, CUT OFF R/D WINCHES
	11:30 - 18:00	6.50	LOC	7	DRLPRO	CLEAN MUD PITS & UNPLUG CHOKEMANIFOLD (RIG RELEASE @ 18:00HRS 6/17/2012

QEP ENERGY

RED WASH (UTAH)

RW 14-18C (RW13B4-18C)

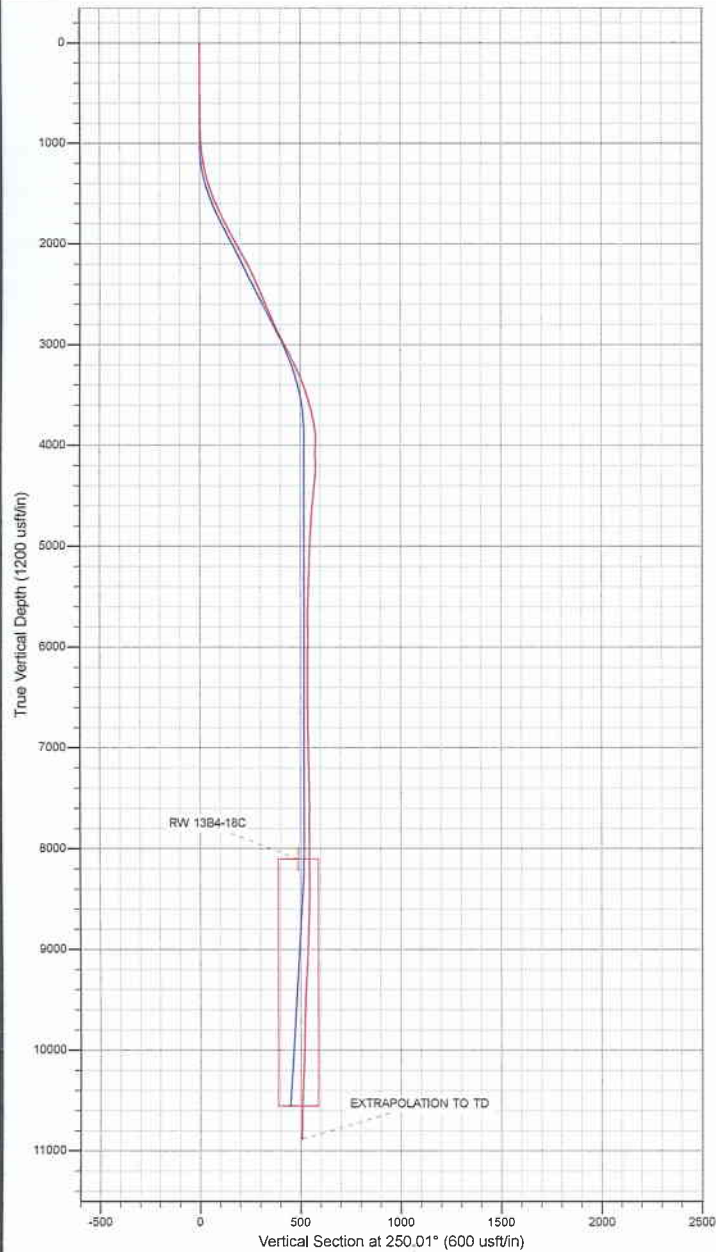
RW 13B4-18C - Slot RW 13B4-18C

ORIGINAL WELLBORE

21 June, 2012

Survey: FINAL SURVEYS





Project: RED WASH (UTAH)
 Site: RW 14-18C (RW13B4-18C)
 Well: RW 13B4-18C
 Wellbore: ORIGINAL WELLBORE
 Design: FINAL SURVEYS

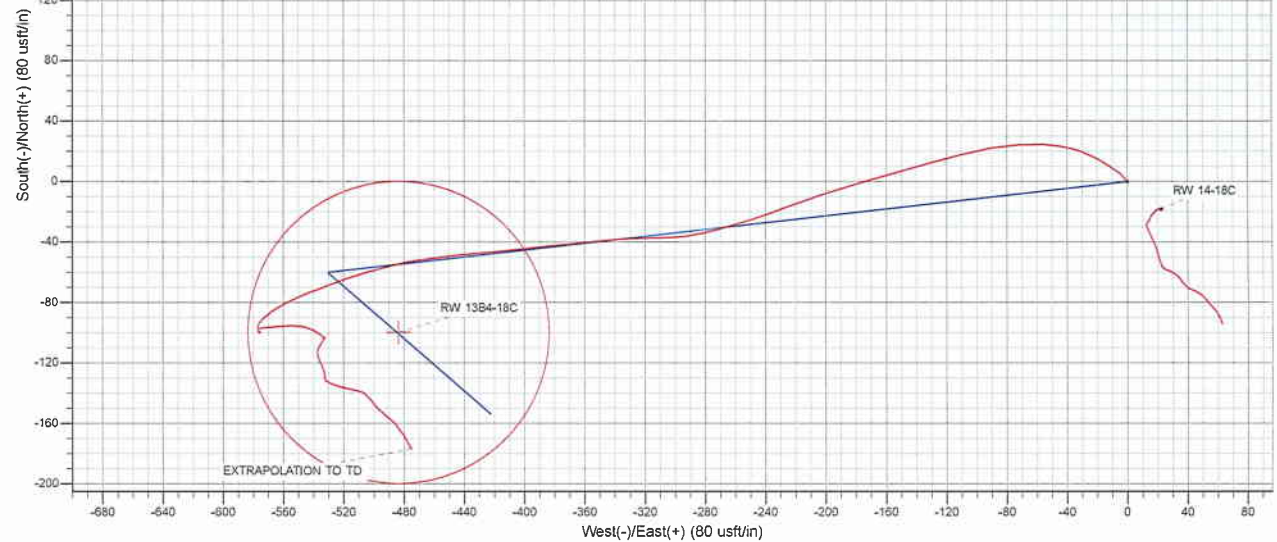


WELL DETAILS: RW 13B4-18C							
+N/-S	+E/-W	Northing	Ground Level: 5677.2	Easting	Latitude	Longitude	
0.0	0.0	7251130.76	2265110.18	40° 12' 17.230 N	109° 15' 47.310 W		
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RW 13B4-18C	8104.0	-99.8	-483.6	7251018.87	2264629.23	40° 12' 16.243 N	109° 15' 53.543 W



Azimuths to True North
 Magnetic North: 10.88°

Magnetic Field
 Strength: 52373.0snT
 Dip Angle: 66.06°
 Date: 24/05/2012
 Model: IGRF2010



ANNOTATIONS							
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Annotation
10882.3	10950.0	3.28	144.08	-176.7	-474.9	506.7	EXTRAPOLATION TO TD

Survey Report



Company:	QEP ENERGY	Local Co-ordinate Reference:	Well RW 13B4-18C - Slot RW 13B4-18C
Project:	RED WASH (UTAH)	TVD Reference:	KB @ 5694.2usft (FRONTIER 2)
Site:	RW 14-18C (RW13B4-18C)	MD Reference:	KB @ 5694.2usft (FRONTIER 2)
Well:	RW 13B4-18C	North Reference:	True
Wellbore:	ORIGINAL WELLBORE	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM_5000_1_7

Project	RED WASH (UTAH)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site	RW 14-18C (RW13B4-18C)		
Site Position:		Northing:	7,251,130.76usft
From:	Map	Easting:	2,265,110.18usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	40° 12' 17.230 N
		Longitude:	109° 15' 47.310 W
		Grid Convergence:	1.43 °

Well	RW 13B4-18C - Slot RW 13B4-18C		
Well Position	+N/-S	0.0 usft	Northing: 7,251,130.76 usft
	+E/-W	0.0 usft	Easting: 2,265,110.18 usft
			Latitude: 40° 12' 17.230 N
			Longitude: 109° 15' 47.310 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Ground Level:	5,677.2 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	24/05/2012	10.88	66.06	52,373

Design	FINAL SURVEYS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	250.01	

Survey Program	Date 21/06/2012				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
144.0	10,950.0	FINAL SURVEYS (ORIGINAL WELLBORI	MWD	MWD - Standard	

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	5,694.2	0.0	0.0	0.0	0.00	0.00	0.00	
144.0	0.13	322.19	144.0	5,550.2	0.1	-0.1	0.0	0.09	0.09	0.00	
233.0	0.26	345.74	233.0	5,461.2	0.4	-0.2	0.1	0.17	0.15	26.46	
320.0	0.40	311.29	320.0	5,374.2	0.8	-0.5	0.2	0.27	0.16	-39.60	
410.0	0.57	313.31	410.0	5,284.2	1.3	-1.1	0.5	0.19	0.19	2.24	
501.0	0.35	309.53	501.0	5,193.2	1.8	-1.6	0.9	0.24	-0.24	-4.15	
589.0	0.53	313.40	589.0	5,105.2	2.2	-2.1	1.2	0.21	0.20	4.40	
682.0	0.31	314.19	682.0	5,012.2	2.7	-2.6	1.5	0.24	-0.24	0.85	
775.0	0.70	344.20	775.0	4,919.2	3.4	-2.9	1.6	0.49	0.42	32.27	
864.0	1.58	318.41	864.0	4,830.2	4.9	-3.9	2.0	1.12	0.99	-28.98	
923.0	2.68	306.19	922.9	4,771.3	6.3	-5.5	3.1	2.01	1.86	-20.71	
1,018.0	3.52	302.24	1,017.8	4,676.4	9.2	-9.8	6.1	0.91	0.88	-4.16	
1,114.0	6.50	300.22	1,113.4	4,580.8	13.5	-17.0	11.4	3.11	3.10	-2.10	

Survey Report



Company:	QEP ENERGY	Local Co-ordinate Reference:	Well RW 13B4-18C - Slot RW 13B4-18C
Project:	RED WASH (UTAH)	TVD Reference:	KB @ 5694.2usft (FRONTIER 2)
Site:	RW 14-18C (RW13B4-18C)	MD Reference:	KB @ 5694.2usft (FRONTIER 2)
Well:	RW 13B4-18C	North Reference:	True
Wellbore:	ORIGINAL WELLBORE	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM_5000_1_7

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,209.0	7.60	294.06	1,207.7	4,486.5	18.7	-27.4	19.3	1.40	1.16	-6.48	
1,305.0	8.17	281.76	1,302.8	4,391.4	22.7	-39.8	29.7	1.85	0.59	-12.81	
1,400.0	9.54	272.27	1,396.7	4,297.5	24.4	-54.3	42.7	2.10	1.44	-9.99	
1,496.0	10.77	266.64	1,491.2	4,203.0	24.2	-71.2	58.7	1.65	1.28	-5.86	
1,591.0	11.73	261.19	1,584.3	4,109.9	22.2	-89.6	76.6	1.51	1.01	-5.74	
1,686.0	13.05	255.22	1,677.1	4,017.1	18.0	-109.5	96.8	1.93	1.39	-6.28	
1,781.0	14.19	254.51	1,769.4	3,924.8	12.1	-131.1	119.1	1.21	1.20	-0.75	
1,876.0	14.58	254.51	1,861.5	3,832.7	5.8	-153.9	142.6	0.41	0.41	0.00	
1,971.0	15.64	253.63	1,953.2	3,741.0	-1.0	-177.7	167.3	1.14	1.12	-0.93	
2,065.0	15.69	252.38	2,043.7	3,650.5	-8.4	-202.0	192.7	0.36	0.05	-1.33	
2,160.0	15.64	248.80	2,135.2	3,559.0	-16.9	-226.2	218.3	1.02	-0.05	-3.77	
2,256.0	14.33	252.05	2,227.9	3,466.3	-25.2	-249.5	243.1	1.62	-1.36	3.39	
2,351.0	13.71	254.71	2,320.1	3,374.1	-31.8	-271.6	266.1	0.94	-0.65	2.80	
2,446.0	13.27	263.04	2,412.5	3,281.7	-36.1	-293.2	287.9	2.10	-0.46	8.77	
2,541.0	12.39	270.60	2,505.1	3,189.1	-37.3	-314.3	308.1	1.99	-0.93	7.96	
2,636.0	12.30	266.03	2,597.9	3,096.3	-37.9	-334.5	327.4	1.03	-0.09	-4.81	
2,731.0	12.56	263.30	2,690.7	3,003.5	-39.8	-354.9	347.1	0.68	0.27	-2.87	
2,826.0	13.27	264.97	2,783.3	2,910.9	-42.0	-376.0	367.7	0.84	0.75	1.76	
2,920.0	14.19	263.04	2,874.6	2,819.6	-44.3	-398.2	389.4	1.09	0.98	-2.05	
3,015.0	14.94	265.50	2,966.5	2,727.7	-46.7	-422.0	412.5	1.02	0.79	2.59	
3,110.0	15.03	263.92	3,058.3	2,635.9	-49.0	-446.4	436.3	0.44	0.09	-1.66	
3,205.0	14.85	260.75	3,150.1	2,544.1	-52.2	-470.7	460.2	0.88	-0.19	-3.34	
3,300.0	12.61	255.13	3,242.4	2,451.8	-56.9	-492.7	482.5	2.74	-2.36	-5.92	
3,396.0	10.94	253.28	3,336.3	2,357.9	-62.2	-511.6	502.0	1.78	-1.74	-1.93	
3,490.0	10.37	247.39	3,428.7	2,265.5	-68.0	-527.9	519.4	1.31	-0.61	-6.27	
3,538.0	9.88	250.38	3,476.0	2,218.2	-71.0	-535.8	527.8	1.50	-1.02	6.23	
3,676.0	7.78	244.32	3,612.3	2,081.9	-79.1	-555.4	548.9	1.66	-1.52	-4.39	
3,770.0	6.33	236.58	3,705.6	1,988.6	-84.7	-565.4	560.3	1.84	-1.54	-8.23	
3,867.0	5.09	226.92	3,802.1	1,892.1	-90.6	-573.1	569.5	1.61	-1.28	-9.96	
3,962.0	3.12	197.21	3,896.9	1,797.3	-95.9	-576.9	574.9	2.99	-2.07	-31.27	
4,058.0	2.11	135.22	3,992.8	1,701.4	-99.7	-576.4	575.8	2.95	-1.05	-64.57	
4,152.0	1.09	8.24	4,086.8	1,607.4	-100.0	-575.1	574.6	3.08	-1.09	-135.09	
4,246.0	1.98	292.92	4,180.8	1,513.4	-98.5	-576.4	575.4	2.13	0.95	-80.13	
4,341.0	1.95	75.25	4,275.8	1,418.4	-97.4	-576.4	575.0	3.92	-0.03	149.82	
4,437.0	3.25	86.11	4,371.7	1,322.5	-96.8	-572.1	570.7	1.44	1.35	11.31	
4,534.0	2.99	84.18	4,468.5	1,225.7	-96.4	-566.8	565.6	0.29	-0.27	-1.99	
4,626.0	2.68	86.99	4,560.4	1,133.8	-96.0	-562.3	561.3	0.37	-0.34	3.05	
4,721.0	2.20	85.06	4,655.3	1,038.9	-95.8	-558.3	557.4	0.51	-0.51	-2.03	
4,816.0	1.80	87.78	4,750.3	943.9	-95.5	-555.0	554.2	0.43	-0.42	2.86	
4,910.0	1.71	93.76	4,844.2	850.0	-95.6	-552.1	551.5	0.22	-0.10	6.36	
5,004.0	1.63	93.94	4,938.2	756.0	-95.8	-549.4	549.0	0.09	-0.09	0.19	
5,099.0	1.49	96.40	5,033.1	661.1	-96.0	-546.8	546.6	0.16	-0.15	2.59	
5,194.0	1.36	110.81	5,128.1	566.1	-96.5	-544.5	544.7	0.40	-0.14	15.17	
5,288.0	1.49	113.10	5,222.1	472.1	-97.4	-542.3	543.0	0.15	0.14	2.44	
5,383.0	1.63	115.65	5,317.0	377.2	-98.5	-540.0	541.1	0.16	0.15	2.68	
5,477.0	1.71	121.53	5,411.0	283.2	-99.8	-537.6	539.3	0.20	0.09	6.26	
5,572.0	1.63	124.70	5,506.0	188.2	-101.3	-535.3	537.6	0.13	-0.08	3.34	
5,667.0	1.76	125.05	5,600.9	93.3	-102.9	-532.9	536.0	0.14	0.14	0.37	
5,762.0	0.22	280.88	5,695.9	-1.7	-103.7	-531.9	535.3	2.07	-1.62	164.03	
5,856.0	0.35	271.21	5,789.9	-95.7	-103.7	-532.4	535.8	0.15	0.14	-10.29	
5,951.0	0.35	291.31	5,884.9	-190.7	-103.6	-533.0	536.2	0.13	0.00	21.16	
6,046.0	0.22	354.80	5,979.9	-285.7	-103.3	-533.2	536.4	0.34	-0.14	66.83	
6,140.0	0.13	72.93	6,073.9	-379.7	-103.1	-533.2	536.3	0.25	-0.10	83.12	

Survey Report



Company:	QEP ENERGY	Local Co-ordinate Reference:	Well RW 13B4-18C - Slot RW 13B4-18C
Project:	RED WASH (UTAH)	TVD Reference:	KB @ 5694.2usft (FRONTIER 2)
Site:	RW 14-18C (RW13B4-18C)	MD Reference:	KB @ 5694.2usft (FRONTIER 2)
Well:	RW 13B4-18C	North Reference:	True
Wellbore:	ORIGINAL WELLBORE	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM_5000_1_7

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,235.0	0.00	100.88	6,168.9	-474.7	-103.0	-533.1	536.2	0.14	-0.14	0.00
6,329.0	0.09	254.25	6,262.9	-568.7	-103.0	-533.1	536.2	0.10	0.10	0.00
6,424.0	0.10	197.56	6,357.9	-663.7	-103.1	-533.2	536.4	0.10	0.01	-59.67
6,518.0	0.31	198.44	6,451.9	-757.7	-103.5	-533.3	536.6	0.22	0.22	0.94
6,613.0	0.40	172.34	6,546.9	-852.7	-104.0	-533.4	536.8	0.19	0.09	-27.47
6,707.0	0.31	178.84	6,640.9	-946.7	-104.6	-533.3	536.9	0.10	-0.10	6.91
6,802.0	0.62	207.32	6,735.9	-1,041.7	-105.3	-533.5	537.4	0.40	0.33	29.98
6,896.0	0.70	219.18	6,829.9	-1,135.7	-106.2	-534.1	538.3	0.17	0.09	12.62
6,991.0	0.88	218.13	6,924.9	-1,230.7	-107.2	-535.0	539.4	0.19	0.19	-1.11
7,087.0	0.53	199.32	7,020.9	-1,326.7	-108.2	-535.6	540.3	0.43	-0.36	-19.59
7,182.0	0.92	208.63	7,115.9	-1,421.7	-109.3	-536.1	541.2	0.43	0.41	9.80
7,277.0	0.93	201.95	7,210.9	-1,516.7	-110.7	-536.7	542.2	0.11	0.01	-7.03
7,372.0	1.14	191.14	7,305.8	-1,611.6	-112.4	-537.2	543.2	0.30	0.22	-11.38
7,467.0	1.18	170.05	7,400.8	-1,706.6	-114.2	-537.2	543.9	0.45	0.04	-22.20
7,562.0	1.27	166.09	7,495.8	-1,801.6	-116.2	-536.8	544.2	0.13	0.09	-4.17
7,658.0	1.41	156.87	7,591.8	-1,897.6	-118.4	-536.1	544.2	0.27	0.15	-9.60
7,753.0	1.67	151.94	7,686.7	-1,992.5	-120.6	-535.0	544.0	0.31	0.27	-5.19
7,848.0	1.93	155.37	7,781.7	-2,087.5	-123.3	-533.6	543.7	0.30	0.27	3.61
7,944.0	0.88	182.00	7,877.7	-2,183.5	-125.5	-533.0	543.8	1.26	-1.09	27.74
8,040.0	0.97	172.86	7,973.6	-2,279.4	-127.1	-532.9	544.3	0.18	0.09	-9.52
8,135.0	1.14	171.63	8,068.6	-2,374.4	-128.8	-532.7	544.6	0.18	0.18	-1.29
8,229.0	0.31	184.20	8,162.6	-2,468.4	-130.0	-532.6	544.9	0.89	-0.88	13.37
8,324.0	0.31	150.00	8,257.6	-2,563.4	-130.5	-532.5	545.0	0.19	0.00	-36.00
8,418.0	0.48	135.68	8,351.6	-2,657.4	-131.0	-532.1	544.8	0.21	0.18	-15.23
8,513.0	0.30	142.19	8,446.6	-2,752.4	-131.4	-531.6	544.5	0.19	-0.19	6.85
8,607.0	0.26	164.60	8,540.6	-2,846.4	-131.8	-531.4	544.5	0.12	-0.04	23.84
8,701.0	0.50	121.01	8,634.6	-2,940.4	-132.3	-531.0	544.2	0.38	0.26	-46.37
8,796.0	1.01	113.62	8,729.6	-3,035.4	-132.8	-529.9	543.4	0.55	0.54	-7.78
8,890.0	1.62	113.10	8,823.6	-3,129.4	-133.7	-527.9	541.8	0.65	0.65	-0.55
8,985.0	1.93	112.39	8,918.5	-3,224.3	-134.8	-525.2	539.6	0.33	0.33	-0.75
9,080.0	1.45	100.88	9,013.5	-3,319.3	-135.6	-522.5	537.4	0.62	-0.51	-12.12
9,174.0	1.76	107.30	9,107.5	-3,413.3	-136.3	-520.0	535.2	0.38	0.33	6.83
9,269.0	1.89	102.29	9,202.4	-3,508.2	-137.1	-517.1	532.8	0.22	0.14	-5.27
9,364.0	1.85	99.47	9,297.4	-3,603.2	-137.6	-514.0	530.1	0.11	-0.04	-2.97
9,458.0	1.58	104.92	9,391.3	-3,697.1	-138.2	-511.3	527.7	0.34	-0.29	5.80
9,553.0	1.49	107.65	9,486.3	-3,792.1	-138.9	-508.8	525.7	0.12	-0.09	2.87
9,647.0	1.35	116.35	9,580.3	-3,886.1	-139.8	-506.7	523.9	0.27	-0.15	9.26
9,742.0	1.45	138.50	9,675.2	-3,981.0	-141.2	-504.9	522.7	0.58	0.11	23.32
9,838.0	1.63	137.97	9,771.2	-4,077.0	-143.1	-503.1	521.8	0.19	0.19	-0.55
9,933.0	1.93	139.29	9,866.1	-4,171.9	-145.3	-501.2	520.7	0.32	0.32	1.39
10,027.0	2.02	143.51	9,960.1	-4,265.9	-147.9	-499.2	519.7	0.18	0.10	4.49
10,122.0	1.71	131.82	10,055.0	-4,360.8	-150.2	-497.1	518.5	0.51	-0.33	-12.31
10,218.0	2.15	129.97	10,151.0	-4,456.8	-152.3	-494.7	516.9	0.46	0.46	-1.93
10,313.0	2.16	130.24	10,245.9	-4,551.7	-154.6	-492.0	515.2	0.02	0.01	0.28
10,409.0	2.28	130.67	10,341.8	-4,647.6	-157.0	-489.1	513.3	0.13	0.12	0.45
10,504.0	2.37	136.21	10,436.8	-4,742.6	-159.6	-486.3	511.6	0.25	0.09	5.83
10,732.0	2.63	147.64	10,664.6	-4,970.4	-167.5	-480.3	508.6	0.25	0.11	5.01
10,827.0	2.64	154.76	10,759.5	-5,065.3	-171.3	-478.2	507.9	0.34	0.01	7.49
10,902.0	3.03	148.25	10,834.4	-5,140.2	-174.5	-476.4	507.4	0.67	0.52	-8.68
EXTRAPOLATION TO TD										
10,950.0	3.28	144.08	10,882.3	-5,188.1	-176.7	-474.9	506.7	0.71	0.52	-8.69

Survey Report



Company:	QEP ENERGY	Local Co-ordinate Reference:	Well RW 13B4-18C - Slot RW 13B4-18C
Project:	RED WASH (UTAH)	TVD Reference:	KB @ 5694.2usft (FRONTIER 2)
Site:	RW 14-18C (RW13B4-18C)	MD Reference:	KB @ 5694.2usft (FRONTIER 2)
Well:	RW 13B4-18C	North Reference:	True
Wellbore:	ORIGINAL WELLBORE	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM_5000_1_7

Targets

Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
RW 13B4-18C		0.00	0.00	8,104.0	-99.8	-483.6	7,251,018.87	2,264,629.23	40° 12' 16.243 N	109° 15' 53.543 W
	- survey misses target center by 57.2usft at 8170.1usft MD (8103.7 TVD, -129.4 N, -532.6 E)									
	- Circle (radius 100.0)									

Survey Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
10,950.0	10,882.3	-176.7	-474.9	EXTRAPOLATION TO TD

Checked By: _____ Approved By: _____ Date: _____

FINAL SURVEYS - RW 13B4-18C - FRONTIER 2.txt

QEP ENERGY

RW 13B4-18C - FINAL SURVEYS

MD Departure	Inc Eastings	Azimuth Vert Sec	TVD Dogleg	Subsea	Latitude	Northings
0.00	0.00	0.00	0.00	5694.20	0.00	7251130.76
0.00	2265110.18	0.00	0.00			
144.00	0.13	322.19	144.00	5550.20	0.13	7251130.89
-0.10	2265110.07	0.05	0.09			
233.00	0.26	345.74	233.00	5461.20	0.40	7251131.16
-0.21	2265109.96	0.06	0.17			
320.00	0.40	311.29	320.00	5374.20	0.80	7251131.54
-0.49	2265109.67	0.19	0.27			
410.00	0.57	313.31	409.99	5284.21	1.31	7251132.04
-1.05	2265109.09	0.54	0.19			
501.00	0.35	309.53	500.99	5193.21	1.80	7251132.52
-1.59	2265108.54	0.88	0.24			
589.00	0.53	313.40	588.99	5105.21	2.25	7251132.96
-2.10	2265108.02	1.20	0.21			
682.00	0.31	314.19	681.99	5012.21	2.72	7251133.41
-2.59	2265107.52	1.50	0.24			
775.00	0.70	344.20	774.98	4919.22	3.44	7251134.13
-2.93	2265107.17	1.57	0.49			
864.00	1.58	318.41	863.96	4830.24	4.88	7251135.54
-3.89	2265106.17	1.98	1.12			
923.00	2.68	306.19	922.92	4771.28	6.31	7251136.92
-5.54	2265104.48	3.05	2.01			
1018.00	3.52	302.24	1017.78	4676.42	9.17	7251139.68
-9.80	2265100.15	6.07	0.91			
1114.00	6.50	300.22	1113.41	4580.79	13.48	7251143.81
-16.99	2265092.86	11.36	3.11			
1209.00	7.60	294.06	1207.69	4486.51	18.75	7251148.82
-27.37	2265082.35	19.31	1.40			
1305.00	8.17	281.76	1302.79	4391.41	22.73	7251152.48
-39.85	2265069.78	29.68	1.85			
1400.00	9.54	272.27	1396.66	4297.54	24.42	7251153.81
-54.33	2265055.26	42.71	2.10			
1496.00	10.77	266.64	1491.15	4203.05	24.20	7251153.17
-71.23	2265038.37	58.66	1.65			
1591.00	11.73	261.19	1584.33	4109.87	22.21	7251150.72
-89.63	2265020.02	76.64	1.51			
1686.00	13.05	255.22	1677.12	4017.08	17.99	7251146.00
-109.55	2265000.22	96.80	1.93			
1781.00	14.19	254.51	1769.45	3924.75	12.14	7251139.62
-131.14	2264978.78	119.09	1.21			
1876.00	14.58	254.51	1861.47	3832.73	5.84	7251132.75
-153.89	2264956.21	142.62	0.41			
1971.00	15.64	253.63	1953.18	3741.02	-0.96	7251125.35
-177.70	2264932.57	167.32	1.14			
2065.00	15.69	252.38	2043.69	3650.51	-8.38	7251117.33
-201.97	2264908.50	192.66	0.36			
2160.00	15.64	248.80	2135.16	3559.04	-16.90	7251108.21
-226.15	2264884.54	218.30	1.02			
2256.00	14.33	252.05	2227.90	3466.30	-25.24	7251099.29
-249.52	2264861.39	243.11	1.62			
2351.00	13.71	254.71	2320.07	3374.13	-31.83	7251092.15
-271.56	2264839.52	266.08	0.94			
2446.00	13.27	263.04	2412.46	3281.74	-36.12	7251087.32
-293.25	2264817.95	287.93	2.10			
2541.00	12.39	270.60	2505.09	3189.11	-37.34	7251085.58
-314.26	2264796.97	308.09	1.99			

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2636.00	12.30	266.03	2597.90	3096.30	-37.93	7251084.48
-334.55	2264776.71	327.36	1.03			
2731.00	12.56	263.30	2690.67	3003.53	-39.84	7251082.06
-354.90	2264756.41	347.14	0.68			
2826.00	13.27	264.97	2783.27	2910.93	-42.00	7251079.37
-376.02	2264735.35	367.73	0.84			
2920.00	14.19	263.04	2874.58	2819.62	-44.34	7251076.48
-398.21	2264713.23	389.37	1.09			
3015.00	14.94	265.50	2966.53	2727.67	-46.71	7251073.51
-421.97	2264689.54	412.52	1.02			
3110.00	15.03	263.92	3058.30	2635.90	-48.98	7251070.64
-446.43	2264665.15	436.28	0.44			
3205.00	14.85	260.75	3150.09	2544.11	-52.24	7251066.77
-470.70	2264640.97	460.20	0.88			
3300.00	12.61	255.13	3242.37	2451.83	-56.86	7251061.60
-492.74	2264619.05	482.49	2.74			
3396.00	10.94	253.28	3336.35	2357.85	-62.17	7251055.82
-511.59	2264600.34	502.02	1.78			
3490.00	10.37	247.39	3428.73	2265.47	-67.99	7251049.60
-527.94	2264584.14	519.38	1.31			
3538.00	9.88	250.38	3475.98	2218.22	-71.03	7251046.36
-535.81	2264576.35	527.81	1.50			
3676.00	7.78	244.32	3612.34	2081.86	-79.06	7251037.85
-555.38	2264556.99	548.95	1.66			
3770.00	6.33	236.58	3705.63	1988.57	-84.67	7251031.99
-565.44	2264547.07	560.32	1.84			
3867.00	5.09	226.92	3802.15	1892.05	-90.55	7251025.91
-573.05	2264539.62	569.48	1.61			
3962.00	3.12	197.21	3896.91	1797.29	-95.90	7251020.47
-576.89	2264535.91	574.92	2.99			
4058.00	2.11	135.22	3992.83	1701.37	-99.65	7251016.73
-576.42	2264536.47	575.76	2.95			
4152.00	1.09	8.24	4086.81	1607.39	-100.00	7251016.42
-575.08	2264537.83	574.61	3.08			
4246.00	1.98	292.92	4180.78	1513.42	-98.48	7251017.91
-576.44	2264536.42	575.38	2.13			
4341.00	1.95	75.25	4275.76	1418.44	-97.43	7251018.96
-576.39	2264536.45	574.97	3.92			
4437.00	3.25	86.11	4371.66	1322.54	-96.83	7251019.67
-572.10	2264540.73	570.73	1.44			
4534.00	2.99	84.18	4468.51	1225.69	-96.38	7251020.24
-566.84	2264545.97	565.64	0.29			
4626.00	2.68	86.99	4560.40	1133.80	-96.03	7251020.71
-562.30	2264550.50	561.25	0.37			
4721.00	2.20	85.06	4655.31	1038.89	-95.75	7251021.08
-558.27	2264554.52	557.37	0.51			
4816.00	1.80	87.78	4750.26	943.94	-95.54	7251021.38
-554.96	2264557.82	554.19	0.43			
4910.00	1.71	93.76	4844.21	849.99	-95.57	7251021.42
-552.08	2264560.70	551.50	0.22			
5004.00	1.63	93.94	4938.17	756.03	-95.76	7251021.30
-549.35	2264563.44	548.99	0.09			
5099.00	1.49	96.40	5033.14	661.06	-95.99	7251021.14
-546.78	2264566.02	546.65	0.16			
5194.00	1.36	110.81	5128.11	566.09	-96.53	7251020.66
-544.49	2264568.31	544.69	0.40			
5288.00	1.49	113.10	5222.08	472.12	-97.40	7251019.84
-542.33	2264570.50	542.95	0.15			
5383.00	1.63	115.65	5317.04	377.16	-98.47	7251018.83
-539.97	2264572.88	541.11	0.16			
5477.00	1.71	121.53	5411.00	283.20	-99.78	7251017.57
-537.57	2264575.31	539.30	0.20			
5572.00	1.63	124.70	5505.96	188.24	-101.29	7251016.12

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-535.25	2264577.67	537.63	0.13			
5667.00	1.76	125.05	5600.92	93.28	-102.90	7251014.57
-532.95	2264580.01	536.02	0.14			
5762.00	0.22	280.88	5695.91	-1.71	-103.71	7251013.80
-531.93	2264581.05	535.34	2.07			
5856.00	0.35	271.21	5789.91	-95.71	-103.67	7251013.82
-532.40	2264580.58	535.76	0.15			
5951.00	0.35	291.31	5884.91	-190.71	-103.55	7251013.92
-532.96	2264580.02	536.25	0.13			
6046.00	0.22	354.80	5979.90	-285.70	-103.27	7251014.20
-533.25	2264579.72	536.42	0.34			
6140.00	0.13	72.93	6073.90	-379.70	-103.06	7251014.41
-533.16	2264579.80	536.27	0.25			
6235.00	0.00	100.88	6168.90	-474.70	-103.02	7251014.45
-533.06	2264579.91	536.16	0.14			
6329.00	0.09	254.25	6262.90	-568.70	-103.04	7251014.43
-533.13	2264579.84	536.23	0.10			
6424.00	0.10	197.56	6357.90	-663.70	-103.14	7251014.32
-533.22	2264579.74	536.36	0.10			
6518.00	0.31	198.44	6451.90	-757.70	-103.46	7251014.00
-533.33	2264579.64	536.57	0.22			
6613.00	0.40	172.34	6546.90	-852.70	-104.03	7251013.43
-533.37	2264579.62	536.80	0.19			
6707.00	0.31	178.84	6640.90	-946.70	-104.61	7251012.85
-533.32	2264579.68	536.95	0.10			
6802.00	0.62	207.32	6735.90	-1041.70	-105.33	7251012.13
-533.55	2264579.47	537.41	0.40			
6896.00	0.70	219.18	6829.89	-1135.69	-106.22	7251011.22
-534.14	2264578.90	538.28	0.17			
6991.00	0.88	218.13	6924.88	-1230.68	-107.25	7251010.18
-534.96	2264578.11	539.40	0.19			
7087.00	0.53	199.32	7020.87	-1326.67	-108.25	7251009.16
-535.56	2264577.53	540.30	0.43			
7182.00	0.92	208.63	7115.87	-1421.67	-109.33	7251008.07
-536.07	2264577.05	541.15	0.43			
7277.00	0.93	201.95	7210.85	-1516.65	-110.72	7251006.67
-536.73	2264576.43	542.24	0.11			
7372.00	1.14	191.14	7305.84	-1611.64	-112.36	7251005.01
-537.20	2264576.00	543.24	0.30			
7467.00	1.18	170.05	7400.82	-1706.62	-114.25	7251003.12
-537.21	2264576.03	543.90	0.45			
7562.00	1.27	166.09	7495.80	-1801.60	-116.23	7251001.15
-536.79	2264576.50	544.19	0.13			
7658.00	1.41	156.87	7591.77	-1897.57	-118.35	7250999.05
-536.07	2264577.28	544.23	0.27			
7753.00	1.67	151.94	7686.74	-1992.54	-120.65	7250996.78
-534.96	2264578.44	543.98	0.31			
7848.00	1.93	155.37	7781.69	-2087.49	-123.33	7250994.14
-533.64	2264579.83	543.65	0.30			
7944.00	0.88	182.00	7877.66	-2183.46	-125.53	7250991.95
-532.99	2264580.53	543.80	1.26			
8040.00	0.97	172.86	7973.65	-2279.45	-127.07	7250990.41
-532.92	2264580.64	544.25	0.18			
8135.00	1.14	171.63	8068.63	-2374.43	-128.81	7250988.68
-532.68	2264580.93	544.62	0.18			
8229.00	0.31	184.20	8162.62	-2468.42	-129.99	7250987.51
-532.56	2264581.07	544.92	0.89			
8324.00	0.31	150.00	8257.62	-2563.42	-130.47	7250987.03
-532.45	2264581.19	544.98	0.19			
8418.00	0.48	135.68	8351.62	-2657.42	-130.97	7250986.54
-532.05	2264581.61	544.77	0.21			
8513.00	0.30	142.19	8446.62	-2752.42	-131.45	7250986.07
-531.62	2264582.05	544.53	0.19			

		FINAL SURVEYS - RW		13B4-18C -	FRONTIER 2.txt	
8607.00	0.26	164.60	8540.62	-2846.42	-131.85	7250985.68
-531.41	2264582.27	544.47	0.12			
8701.00	0.50	121.01	8634.62	-2940.42	-132.27	7250985.27
-531.01	2264582.69	544.23	0.38			
8796.00	1.01	113.62	8729.61	-3035.41	-132.81	7250984.75
-529.88	2264583.82	543.36	0.55			
8890.00	1.62	113.10	8823.58	-3129.38	-133.67	7250983.95
-527.90	2264585.82	541.79	0.65			
8985.00	1.93	112.39	8918.54	-3224.34	-134.80	7250982.88
-525.19	2264588.57	539.63	0.33			
9080.00	1.45	100.88	9013.49	-3319.29	-135.64	7250982.11
-522.53	2264591.24	537.42	0.62			
9174.00	1.76	107.30	9107.46	-3413.26	-136.29	7250981.52
-519.98	2264593.81	535.25	0.38			
9269.00	1.89	102.29	9202.41	-3508.21	-137.06	7250980.82
-517.06	2264596.75	532.76	0.22			
9364.00	1.85	99.47	9297.36	-3603.16	-137.65	7250980.31
-514.02	2264599.80	530.10	0.11			
9458.00	1.58	104.92	9391.32	-3697.12	-138.23	7250979.80
-511.27	2264602.57	527.72	0.34			
9553.00	1.49	107.65	9486.28	-3792.08	-138.94	7250979.15
-508.82	2264605.03	525.67	0.12			
9647.00	1.35	116.35	9580.25	-3886.05	-139.80	7250978.34
-506.67	2264607.20	523.94	0.27			
9742.00	1.45	138.50	9675.23	-3981.03	-141.20	7250976.99
-504.87	2264609.04	522.72	0.58			
9838.00	1.63	137.97	9771.19	-4076.99	-143.12	7250975.11
-503.15	2264610.80	521.76	0.19			
9933.00	1.93	139.29	9866.15	-4171.95	-145.34	7250972.94
-501.20	2264612.81	520.69	0.32			
10027.00	2.02	143.51	9960.09	-4265.89	-147.87	7250970.46
-499.18	2264614.89	519.66	0.18			
10122.00	1.71	131.82	10055.04	-4360.84	-150.16	7250968.22
-497.13	2264617.00	518.52	0.51			
10218.00	2.15	129.97	10150.98	-4456.78	-152.28	7250966.17
-494.68	2264619.49	516.94	0.46			
10313.00	2.16	130.24	10245.92	-4551.72	-154.58	7250963.94
-491.95	2264622.28	515.16	0.02			
10409.00	2.28	130.67	10341.85	-4647.65	-156.99	7250961.60
-489.12	2264625.17	513.32	0.13			
10504.00	2.37	136.21	10436.77	-4742.57	-159.64	7250959.02
-486.33	2264628.03	511.60	0.25			
10732.00	2.63	147.64	10664.55	-4970.35	-167.46	7250951.36
-480.27	2264634.29	508.58	0.25			
10827.00	2.64	154.76	10759.45	-5065.25	-171.28	7250947.59
-478.17	2264636.48	507.91	0.34			
10902.00	3.03	148.25	10834.36	-5140.16	-174.53	7250944.39
-476.39	2264638.34	507.35	0.67			
10950.00	3.28	144.08	10882.29	-5188.09	-176.72	7250942.23
-474.92	2264639.87	506.72	0.71			

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02148
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		8. WELL NAME and NUMBER: RW 13B4-18C
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0911 FSL 0800 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 24.0E Meridian: S		9. API NUMBER: 43047522430000
9. FIELD and POOL or WILDCAT: RED WASH		COUNTY: UINTAH
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/17/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input checked="" type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center;"> INTERIM RECLAIMED IN FALL 2012, SEE ATTACHED BLM APPROVED SUNDRY. FOR DOGM RECORD ONLY. </div> <div style="text-align: right; margin-top: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 12, 2013 </div>		
NAME (PLEASE PRINT) Amanda Taylor	PHONE NUMBER 435 247-1023	TITLE Reclamation Technician
SIGNATURE N/A	DATE 12/12/2013	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
UTU02148

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
892000761D

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
RW 13B4-18C

2. Name of Operator

QEP ENERGY COMPANY

Contact: AMANDA TAYLOR

E-Mail: amanda.taylor@qepres.com

9. API Well No.

43-047-52243-00-S1

3a. Address

11002 EAST 17500 SOUTH
VERNAL, UT 84078

3b. Phone No. (include area code)

Ph: 435-247-1023

10. Field and Pool, or Exploratory
RED WASH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 18 T7S R24E Lot 4 911FSL 800FWL
40.204786 N Lat, 109.263142 W Lon

11. County or Parish, and State

UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input checked="" type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

RW 13B4-18C WAS DOWNSIZED AND RECLAIMED IN FALL 2012. RECLAMATION OPERATIONS FOLLOWED THE QEP ENERGY COMPANY, UINTA BASIN DIVISION, RECLAMATION PLAN, SEPTEMBER 2009 AND THE BLM GREEN RIVER DISTRICT RECLAMATION GUIDELINES. RECLAMATION SPECIFIC TO THIS LOCATION INCLUDE:

1. ALL NON-ESSENTIAL EQUIPMENT AND DEBRIS WERE REMOVED.
2. AREAS NOT NEEDED FOR PRODUCTION OPERATIONS WERE RIPPED TO RELIEVE COMPACTION AND RECONTOURED TO BLEND WITH THE SURROUNDING LANDSCAPE. TOPSOIL WAS SPREAD TO THE APPROPRIATE DEPTH.
3. THE LOCATION WAS DISCED AND SEEDED WITH THE APPROVED SEED MIX. CERTIFIED WEED FREE STRAW WAS CRIMPED IN AT A RATE OF 1.5 TONS PER ACRE.

TOTAL DISTURBED AREA WAS 3.29 ACRES
THE RECLAIMED AREA IS 0.91 ACRES

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #202187 verified by the BLM Well Information System
For QEP ENERGY COMPANY, sent to the Vernal
Committed to AFMSS for processing by BOBBI SCHROEDER on 03/22/2013 (13BJS0513SE)**

Name (Printed/Typed) AMANDA TAYLOR

Title RECLAMATION TECHNICIAN

Signature (Electronic Submission)

Date 03/21/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JERRY KENCZKA Title AFM FOR MINERAL RESOURCES	Date 08/22/2013
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office Vernal		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ******RECEIVED:** Dec. 12, 2013

Sundry Number: 45848 API Well Number: 43047522430000

Additional data for EC transaction #202187 that would not fit on the form

32. Additional remarks, continued

THE ACTIVE AREA IS 2.38 ACRES

THE ROW WILL BE MONITORED PER QEP'S RECLAMATION PLAN.

Revisions to Operator-Submitted EC Data for Sundry Notice #202187

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	RECL SR	RECL SR
Lease:	UTU02148	UTU02148
Agreement:	RED WASH	892000761D (UTU63010D)
Operator:	QEP ENERGY COMPANY 11002 EAST 17500 SOUTH VERNAL, UT 84078 Ph: 435-247-1023	QEP ENERGY COMPANY 11002 EAST 17500 SOUTH VERNAL, UT 84078 Ph: 435-781-4032 Fx: 435-781-4045
Admin Contact:	AMANDA TAYLOR RECLAMATION TECHNICIAN E-Mail: AMANDA.TAYLOR@QEPRES.COM Ph: 435-247-1023	AMANDA TAYLOR RECLAMATION TECHNICIAN E-Mail: amanda.taylor@qepres.com Ph: 435-247-1023
Tech Contact:	AMANDA TAYLOR RECLAMATION TECHNICIAN E-Mail: AMANDA.TAYLOR@QEPRES.COM Ph: 435-247-1023	AMANDA TAYLOR RECLAMATION TECHNICIAN E-Mail: amanda.taylor@qepres.com Ph: 435-247-1023
Location: State: County:	UT UINTAH	UT UINTAH
Field/Pool:	RED WASH	RED WASH
Well/Facility:	RW 13B4-18C Sec 18 T7S R24E NWSW 911FSL 800FWL 40.204780 N Lat, 109.263010 W Lon	RW 13B4-18C Sec 18 T7S R24E Lot 4 911FSL 800FWL 40.204786 N Lat, 109.263142 W Lon